C-2040ZOOM

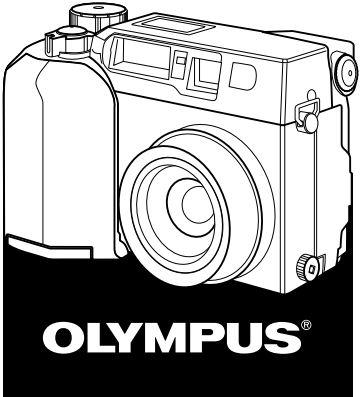
CAMEDIA

INSTRUCTIONS

DIGITAL CAMERA

- Before using your camera, read this manual carefully to ensure correct use.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.

1.Getting Started	P.27
2.Shooting and Playback Basics	P.51
3.Focusing	P.75
4.Custom Photography	P.87
5.Using Flash	P.123
6.Displaying, editing and erasing your pictures	P.137
7.Print settings	P.157
8.Mode setup	P.169
9.Downloading Images to a Computer	P.193
10.Miscellaneous	P.201



Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.

Legal and other notices

- All contents of this publication are subject to change without notice.
- Although the contents of this publication have been carefully checked to avoid errors, some may still occur. If you have a question about any points, or find mistakes or omissions, please contact us.
- No part of this publication may be reproduced or reprinted except for personal use without prior written permission from Olympus.
- Olympus makes no representations or warranties regarding any damages, or benefit expected by using this unit lawfully, or any request from a third person, which are caused by the inappropriate use of this product.
- Olympus makes no representations or warranties regarding any damages or any benefit expected by using this unit lawfully which are caused by erasing picture data.
- Olympus reserves all rights to this manual.

Trademarks

Windows® is a registered trademark of Microsoft Corporation.
Macintosh™ is a trademark of Apple Computer Inc.
All other brand names and product names are trademarks of their respective owners.
The standards for camera file systems referred to in this manual are the "Design Rule for Camera File System/DCF" standards stipulated by the Japan Electronics Industry Development Association (JEIDA).

A guide to reading these instructions

These Instructions consist of the chapters listed below. You can also locate information on camera operation using the index provided on page 218.

The Basics	1. Getting Started	Describes the preparations required before you can use the camera.	P.27-
	2. Shooting and Playback Basics	Describes the basic procedures for using the camera to take pictures.	P.51-
Taking Pictures	3. Focusing	Describes various ways of focusing the camera.	P.75-
	4. Custom Photography	Explains how to use the camera to control the type of shot, the brightness and exposure, and the color and quality so that you get exactly the shot you want.	P.87-
	5. Using Flash	Describes how to take pictures using the built-in flash and external flash units.	P.123-
Display	6. Displaying, editing and erasing your pictures	Describes how to display pictures you have shot and how to edit recorded movies.	P.137-
Camera Settings	7. Print settings	Describes the settings used to print the pictures you have taken, using a printer or print service that supports DPOF.	P.157-
	8. Mode setup	Describes the mode settings that are available on this camera.	P.169-
Using Images	9. Downloading Images to a Computer	Describes how to download your pictures and movies to your computer.	P.193-
Miscellaneous	10. Miscellaneous	Provides information on topics such as troubleshooting and cleaning the camera as well as the camera specifications.	P.201-

Conventions used in these instructions

In these Instructions, the icons described below are used to draw your attention to warnings or other useful information regarding the use of the camera.



This camera provides some functions that apply only to still images, and others that apply only to movies. The icons at left are used to show clearly the type of images with which a function can be used. The icon denotes a still image function, while the icon indicates a movie function.



From Chapter 2 forward, these icons are shown at the beginning of each procedure. Set the Mode dial to the icon shown.

CAUTION This indicates information you need to be aware of when using a particular function. Read this information before using the function.

MEMO Indicates information that will enable you to use the function more effectively. Reading these notes will ensure that you get the most out of your camera.

Important safety instructions

Radio and Television Interference

Change or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Adjust or relocate the receiving antenna.
- Increase the distance between the camera and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Only the USB cable should be used to connect the camera to a personal computer (PC).

Declaration of Conformity

Model Number: C-2040Zoom
Trade Name: OLYMPUS
Responsible Party: Olympus America Inc.
Address: 2 Corporate Center Drive, Melville, New York 11747-3157 U.S.A.
Telephone Number: 631-844-5000

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED OLYMPUS SERVICE PERSONNEL.



The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, ANY LIQUID OR MOISTURE.

1 Read All Instructions — Before you use the product, read all operating instructions.
2 Save These Instructions — Save all safety and operating instructions for future reference.
3 Heed Warnings — Read carefully and follow all warning labels on the product and all warnings described in the instructions.
4 Follow Instructions — Follow all instructions provided with this product.
5 Cleaning — Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.
6 Attachments — For your safety, and to avoid damaging the product, use only accessories recommended by Olympus.
7 Water and Moisture — Never use this product around water (near a bathtub, kitchen sink, laundry tub, wet basement, or swimming pool).
8 Location — To avoid damage to the product and to avoid personal injury, never place this product on an unstable stand, tripod, bracket, table or cart. Mount only on a stable tripod, stand, or bracket. Follow the instructions which describe how to safely mount the product, and use only the mounting devices recommended by the manufacturer.
9 Power Sources — Connect this product only to the power source described on the product label. If you are not sure about the type of power supply in your home, consult your local power company. Refer to your operating instructions for information on using the product with batteries.
10 Grounding, Polarization — If this product can be used with an optional AC adapter, the adapter may be equipped with a polarized alternating current line plug, a plug with one blade wider than the other. This safety feature allows the plug to fit into the power outlet only one way. If you cannot insert the plug into the wall outlet, pull it out, reverse it, and then insert it again. If the plug still fails to fit, contact an electrician and have the receptacle replaced.
11 Protecting the Power Cord — The power supply cord should be routed so it will not be walked on. Never place a heavy object on the power cord and never wrap the power cord around the leg of a table or chair. Keep the areas around the power cord connection points, at the power outlet and at the product connection, free of all obstacles.

12 Lightning — If a lightning storm occurs while using the optional AC adapter, unplug the adapter power cord from the wall outlet immediately. To avoid damage from unexpected power surges, always unplug the AC adapter from the power outlet and disconnect it from the camera when the camera is not in use.
13 Overloading — Never overload wall outlets, extension cords, power strips, or other power connection points with too many plugs.
14 Foreign Objects, Spillage — To avoid personal injury from fire or electrical shock from contact with internal high voltage points, never insert a metal object into the product. Avoid using the product where there is a danger of spillage.
15 Servicing — Refer all servicing to qualified personnel. Attempting to remove the covers or disassemble the product, could expose you to dangerous high voltage points.
16 Damage Requiring Service — While using the optional AC adapter, if you notice any of the conditions described below, unplug the AC adapter from the wall outlet and refer servicing to qualified service personnel:
 a) If liquid has been spilled, or any object has fallen into the product.
 b) If the product has been exposed to water.
 c) If the product does not operate normally while following operating instructions. Adjust only the controls described in the operating instructions as improper adjustment of other controls could damage the product, requiring extensive repair work by a qualified technician to restore the product to normal operation.
 d) If the product has been dropped or damaged in any way.
 e) If the product exhibits a distinct change in performance, this indicates a need for servicing.
17 Replacement Parts — When replacement parts are required, make sure that the service center uses only parts recommended by the manufacturer to ensure that the replacement parts have the same characteristics as the originals. Unauthorized substitution of parts could cause a fire, electrical shock, or create other hazards.
18 Safety Check — Upon completion of servicing or repairs, ask the service technician to perform safety checks to determine that the product is in good working condition.
19 Heat — Never use or store this product near a heat source such as a radiator, heat register, stove, or any type of equipment or appliance which generates heat, including stereo amplifiers.

WARNING!

- Keep batteries away from children.
- If a child swallows a battery, seek medical attention immediately.
- Dispose of lithium batteries promptly and safely in compliance with local laws regarding the disposal of such items.
- To avoid causing a fire or minor burns, always handle lithium batteries carefully.
- Never attempt to charge the lithium battery, disassemble it, heat it above 212°F (100°C) or incinerate it.
- To ensure good contact, wipe the battery with a clean, dry cloth before use.
- To avoid short circuiting the +/– sides of the battery, never handle a lithium battery with a metal tool, tweezers, etc.

Danger: If the product is used without observing the information given under this symbol, serious injury or death may result.

Warning: If the product is used without observing the information given under this symbol, injury or death may result.

Caution: If the product is used without observing the information given under this symbol, minor personal injury, damage to the equipment, or the loss of valuable data may result.

Handling Batteries

Follow these important guidelines to prevent the batteries from leaking, overheating, burning, exploding, or causing electrical shock or burns.

DANGER

1 When using NiMH batteries, use only Olympus brand NiMH batteries and charger.
2 Never load batteries with their +/– terminals reversed. Never force batteries into the battery compartment.
3 To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, with soldering, etc.
4 Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects like jewelry, pins, fasteners, etc.

5 Never heat batteries or incinerate them.
6 Never attempt to connect a battery directly to a power outlet, or to a cigarette lighter in a vehicle.
7 If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.

⚠ WARNING

1 Keep batteries dry at all times. Never allow them to come into contact with fresh water or salt water.
2 To prevent batteries from leaking, overheating, or causing a fire or explosion:
 • Use only batteries recommended for use with this product.
 • Never heat batteries, incinerate them, or attempt to disassemble them.
 • Never mix batteries (old and new batteries, charged and uncharged batteries, batteries of different manufacture or capacity, etc.).
 • Never attempt to charge alkaline or lithium batteries.
 • Load batteries carefully as described in the operating instructions. Never reverse their polarity when loading.
 • Do not use batteries if their body is not covered by the insulating sheet or if the sheet is torn as it may cause fluid leak, fire, or injury. Do not use these batteries even if they are sold in stores.
3 If NiMH batteries are not charged within the specified time, stop charging them and do not use them.
4 Before loading, always inspect batteries carefully for leaks, discoloration, warping, or any other abnormality.
5 Always store batteries out of the reach of small children. If a child accidentally swallows a battery, seek medical attention immediately.
6 If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
7 Never attempt to modify the battery compartment on the camera, never insert anything (other than the recommended battery) into the battery compartment.

⚠ CAUTION

1 Olympus NiMH batteries are intended for use only with Olympus digital cameras. Never use these batteries with any other device.
2 Never subject batteries to strong shocks or continuous vibration.
3 Never mix batteries (old and new batteries, charged and uncharged batteries, batteries of different manufacture or capacity, etc.).
4 Always charge sets of batteries (2 or 4) together.
5 Always charge NiMH batteries before using them for the first time, or if they have not been used for a long period.
6 While the camera is not in use, always remove the batteries to prevent accidental leakage which could damage the battery compartment.
7 If a battery leaks, becomes discolored or deformed, or in any other way becomes abnormal during operation, stop using the camera and consult your dealer or an authorized Olympus service center. Continued use may result in fire or electric shock.
8 Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
9 Batteries may become hot during prolonged use. To avoid minor burns, never remove them immediately after using the camera.

Handling the Camera

WARNING

1 Use caution when taking flash pictures at close range. When you fire the flash, you must be at least 3 ft. away from the faces of your subjects, especially when taking pictures of infants and small children. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.
2 To avoid damaging your eyes, never aim the camera directly into the sun, or any other extremely bright light source.
3 To avoid causing a fire or explosion, never use the camera near flammable or explosive gases.
4 Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
 • Becoming entangled in the camera strap, causing strangulation.
 • Accidentally swallowing a battery or small part.
 • Accidentally firing the flash into their own eyes or into the eyes of another child.
5 To avoid the hazards of fire or electrical shock, store the camera in a cool, dry location where it will not be subjected to high humidity or dust.
6 To avoid minor burns, never cover the flash with your hand when it is fired. Never touch the flash unit after continuous use. The flash unit becomes very hot during continuous operation.
7 If the camera is accidentally dropped in water, or if liquid is spilled into the camera, stop using the camera, allow the camera to dry, and then remove the batteries. Contact the nearest Olympus authorized service center.

⚠ CAUTION

1 During operation of the camera, if you notice any unusual odors, noise, or smoke around the camera, immediately switch the camera off, disconnect the optional AC adapter (if it is connected), and allow the camera to sit idle for a few minutes to allow it time to cool. Take the camera outdoors, away from flammable objects, and carefully remove the batteries to avoid burning your hands. Contact the nearest Olympus service center immediately.
2 Never attempt to disassemble the camera. The internal circuits contain high voltage points which could cause serious burns or electrical shock.
3 To avoid dangerous electrical shock, never hold or operate the camera with wet hands.
4 To avoid damaging the camera or causing a fire, never expose the camera to excessive heat.

⚠ CAUTION

Camera Care and Storage

- Never store or use the camera for long periods in locations subject to direct sunlight, high humidity, extreme variation in temperature, or strong shocks and constant vibration. Protect the camera at all times from dust and sand.
- Never store the camera near any type of appliance or equipment which generates high temperatures, low temperatures, high or low humidity, or a strong magnetic field. Never use the camera in a factory or laboratory where flammable gases are present.
- Never shake the camera or subject it to shock or strong vibration.
- To avoid damaging its precision lens, never leave the camera pointing directly into the sun.
- Before storing the camera for a long period, remove the batteries. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by pressing the shutter release button to make sure that it is operating normally.
- When the camera is mounted on a tripod, adjust the tripod head to re-position the camera; do not twist the camera.
- Never touch the flash after it has been fired. Avoid using the flash for extended periods. Allow it to cool occasionally between shots.
- To avoid injury from electrical shock, never attempt to disassemble or modify the camera in any way.

⚠ CAUTION

Selecting Batteries for Your Camera

- This camera can use four AA NiMH batteries, four AA Alkaline batteries, four AA lithium batteries, four AA NiCd batteries, or two CR-V3 lithium battery packs. Use of Olympus brand batteries is strongly recommended.
- Alkaline battery performance is limited, especially at low temperatures. And it may runs out extremely shorter period than CRV3 or NiMH. Using NiMH batteries is recommended.
- AA manganese batteries cannot be used with this camera.
- Always follow the battery recommendations and loading instructions. Incorrectly loading the batteries could cause the batteries to leak or overheating.
- When using the camera on battery power at low temperatures, try to keep the camera and extra batteries as warm as possible. Batteries which run down at low temperatures may be restored after they are warmed at ambient temperature.
- Perspiration or oil from your hands on the battery contacts could prevent them from operating. Before loading batteries, wipe the terminals with a dry, clean cloth.
- Before going on a long trip, especially before traveling abroad, purchase an ample supply of extra batteries. The recommended batteries may be difficult to obtain while traveling.
- Always recharge NiMH or NiCd batteries with a charger recommended for use with these batteries.
- Before using NiMH or NiCd batteries, always read the instructions provided with purchase of these batteries.
- To avoid personal injury or damage to the camera, always inspect batteries before loading. If you notice leaking, damage to the battery cover or insulation, discoloration, warping or any other abnormality do not use the batteries.
- Recommended temperature ranges for NiMH batteries:
 Operation..... 32° ~ 104°F
 Charge..... 32° ~ 104°F
 Storage..... –4° ~ 86°F
- Using, charging, or storing the batteries outside these ranges could shorten battery life or affect battery performance. Always unload the batteries from the camera before storing the camera and batteries for a long period.

NOTES

LCD Display and Backlight

- Do not point the viewfinder towards strong light like the sun, as this may damage interior of the viewfinder.
- The backlight built into the monitor and control panel has a limited service life. When the monitor gets dark or flickers, consult your nearest Olympus dealer.
- In places subject to low temperatures, the backlight may take a long time to turn on or its color may change temporarily. When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. A backlight exhibiting poor performance due to low temperatures will recover in normal temperatures.
- Do not push the monitor forcibly; otherwise the image may become vague, resulting in a Display mode failure or damage to the monitor.
- When a subject is viewed diagonally in the camera, the edges may appear zigzagged on the monitor. This is not a malfunction; It will be less noticeable in Display mode.
- A strip of light may appear on the top/bottom of the monitor, but this is not a malfunction.
- **The LCD display is made with high-precision technology. However, black spots or bright spots of light may appear constantly on the LCD display. Due to its characteristics or the angle at which you are viewing the monitor, the spot may not be uniform in color and brightness. This is not a malfunction.**

Contents

Legal and other notices....2
Trademarks....2
A guide to reading these instructions....3
Conventions used in these instructions....3
Important safety instructions....4
Radio and Television Interference....4
Handling batteries....8
Handling the camera....11
LCD Display and Backlight....14
Contents....15
Main features....20
Checking the package contents....21
Names of parts....23
Camera....23
Viewfinder....24
Control Panel Display....25
Monitor Display....25

1 Getting Started....27
Attaching the strap and lens cap....28
Loading the batteries....29
Life of the lithium battery pack (Included)....32
Using a domestic AC wall outlet....33
Inserting and removing SmartMedia cards....35
Inserting a card....36
Removing a card....37
Setting the date and time....38
Using the Mode dial....41
Using the menus....42
Shooting menu options....46
Still picture shooting menu....46
Movie record menu....47
Playback menu options....48
Still picture playback menu....48
Movie playback menu....49

2 Shooting and Playback Basics 51
Switching on and off 52
Checklist before shooting 54
Checking the remaining battery charge.....54
Checking SmartMedia card status (Card check).....55
Checking the available shots/time.....56
Adjusting the viewfinder.....58
Holding the camera 58
Pressing the shutter button.....59
Shooting 60
Taking still pictures 60
Taking pictures using the monitor.....63
Shooting movies 65
Checking and erasing photographed images.....67
Displaying pictures (Quick View).....67
Playing movies.....69
Erasing pictures (One-frame erase) 71
Using the zoom.....72
Using the flash (Auto-Flash) 73

3 Focusing 75
Focusing on difficult subjects (Subjects not suited to autofocus).....76
Working range.....77
Focusing on off-center subjects (Focus lock) 78
Focusing faster (Full-time AF).....79
Selecting a focusing area (AF MODE).....81
Focusing manually (Manual focus).....82
Focusing on close-up subjects (Macro mode).....84
Zooming in further (Digital Zoom mode) 85

4 Custom Photography 87

[Type of Shot]

Setting the "A/S/M" dial functions 88
Controlling the depth of field (Aperture Priority mode) 89
Capturing movement (Shutter Priority mode) 90
Selecting the aperture and shutter speed manually (Manual mode) 91

[Brightness and Exposure]

Shooting at stepped exposures (Exposure compensation) 92
Continuous shooting at stepped exposures (Auto Bracketing) 93
Measuring the subject brightness (Spot Metering mode) 95
Using Spot Metering in Macro mode 97
Taking pictures with pre-fixed exposure 98
Setting the [OK] button functions (Setting AE Lock) 98
Taking pictures with the exposure locked (AE lock) 99
Measuring the average brightness (Multi-metering) 101
Locking the ISO value (ISO setting) 103

[Color and Quality]

Selecting the color tone (Preset White Balance) 105
Setting the color tone (Quick Reference White Balance) 107
Adjusting the color tone (White Balance Correction) 109
Setting the recording quality (Quality setting) 111

[Other Types of Shots]

Taking sequential shots (Sequence mode) 113
Using the self-timer and optional remote control 115
Using the self-timer to take pictures 116
Using the optional remote control to take pictures 117
Using special effects (Function mode) 118
Panorama mode 120

5 Using Flash 123

Selecting the flash firing pattern 124
Firing the flash automatically (Auto-Flash) 125
Reducing red-eye (Red-Eye Reduction mode) 125
Using flash for all shots (Forced Flash mode) 126
Preventing flash firing in dark conditions (Flash Off mode) 126
Setting the flash brightness (Flash intensity control) 127

Selecting the flash timing (Slow Synchro) 129
Using external flash 131
Using the FL-40 external flash 131
Using only the FL-40 external flash 133
Using a different external flash 134
Supported different flash units 136

6 Displaying, editing and erasing your pictures 137
Displaying multiple images at one time (Index playback) 138
Selecting the number of images displayed concurrently (4, 9 or 16) 139
Enlarging images (Close-up playback) 140
Displaying images as a slide-show (Automatic playback) 141
Preventing unintentional erasing of images (Image protect) 142
Viewing images on a TV 143
Displaying image information 145
Displaying image information for pictures 146
Displaying image information for movies 146
Editing recorded movies (FUNCTION) 147
Creating an index 147
Editing movies 150
Erasing all images (All-frame erase) 152
Initializing cards (Formatting) 154

7 Print settings 157
Printing methods 158
Printing all the images on a card (All print order) 160
Printing only selected images (Single print order) 162
Printing some images enlarged (Trimmed print order) 165
Resetting print reserve 167

8 Mode setup 169
MODE SETUP - Using function settings for easy camera operation 170
List of mode settings 171
Restoring the original settings when the camera is switched off (ALL RESET) 173
Selecting the settings when the camera is switched on (Custom settings) 175
Setting the image clarity (Sharpness) 177
Setting the image contrast (Contrast) 178
Setting the resolution for TIFF mode (TIFF Settings) 179
Setting the resolution and quality for SQ mode (SQ1/SQ2 Settings) 180

Changing the camera's warning tone (Beep) 182
Displaying images during image recording (REC VIEW) 183
Saving/erasing images right after shooting (CHECK) 184
When you select CHECK 184
When you use Auto Bracket 187
Changing the way file names are assigned to recorded images (File Name setting) 189
Folder names and file names 189
Assiging folder names and file names in each mode 189
Adjusting the Monitor brightness (Adjust monitor) 191
Changing the dis distance units (m/ft setting) 192

9 Downloading Images to a Computer 193
Downloading images to your computer 194
Connecting the camera to a computer to download pictures 194
Downloading pictures directly from a card 195
Connecting to a computer using the communication cable 196
Connecting via a USB cable 196
Overview of the CAMEDIA Master functions 199

10 Miscellaneous 201
Troubleshooting 202
Camera operation problems 202
Problems with images 206
Camera maintenance and storage 208
After-use camera care 208
Cleaning the camera 208
Equipment that can be connected to this camera (System expansion chart) 209
Error codes 210
Optional items 212
Compatibility of the picture data 212
Specifications 213
Glossary of terms 216
Index 218

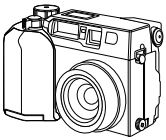
Main features

- **The camera has a high-resolution CCD with a total pixel count of 2.11 million pixels and large-aperture lens (f/1.8) which enable you to capture high quality images.**
- **A 3x zoom lens and a digital zoom lens with a maximum magnification of 5x (recording size of 640 x 480) allow you to capture images of the same quality achievable with a 15x zoom.**
- **Quick Reference white balance and white balance correction have been added to the list of white balance functions. As a result, you can carry out precise color correction.**
- **The camera is equipped with a USB function. Simply connect the cable to easily download image data to your personal computer.***
- **Other Functions**
 - **Multi-metering, which allows you to determine the exposure based on metering values from as many as 8 points.**
 - **Wide-angle TFT LCD monitor.**
 - **Exposure modes that can be selected to suit your shot. (Program, Aperture Priority mode, Shutter Priority mode and Manual).**
 - **A movie function is installed on the camera.**
 - **Video output jack provided for viewing pictures on TV (NTSC).**
 - **SmartMedia cards can be used as the recording media.**
- **In addition to lithium battery packs, AA-size nickel-metal hydride (NiMH) can also be used.**

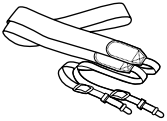
* Depending on your personal computer, it may be necessary to install a USB driver.

Checking the package contents

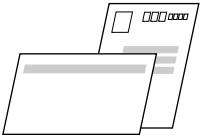
Camera



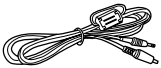
Strap



Warranty and user registration card



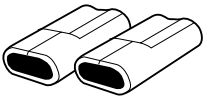
Video cable



USB cable



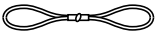
CR-V3 Lithium Battery Pack (2)



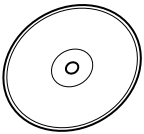
Lens cap



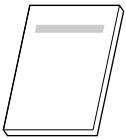
Lens cap cord



Software CD's
(including windows 98 USB driver installer software)



Instructions and English Quick Start Guide



SmartMedia card (1)



Static-free SmartMedia case



SmartMedia labels (2)



SmartMedia write-protect stickers (4)

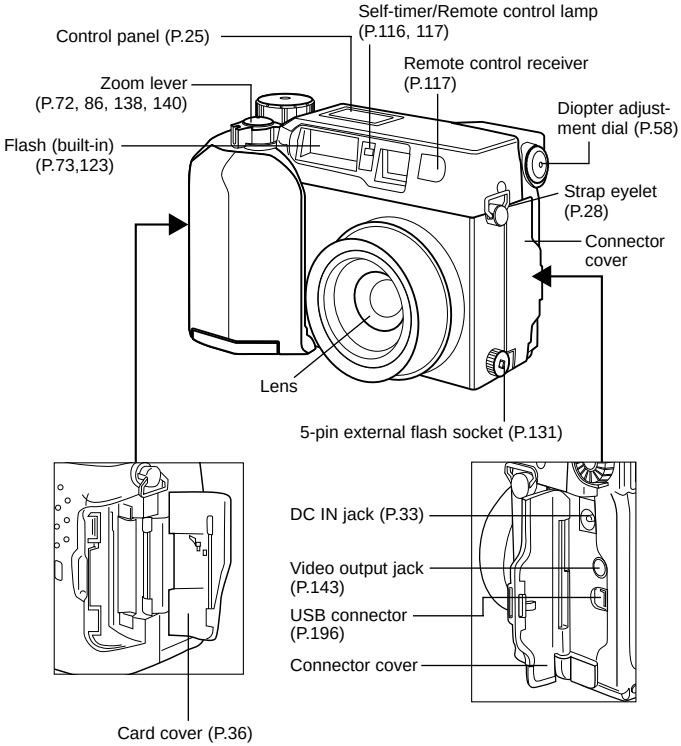


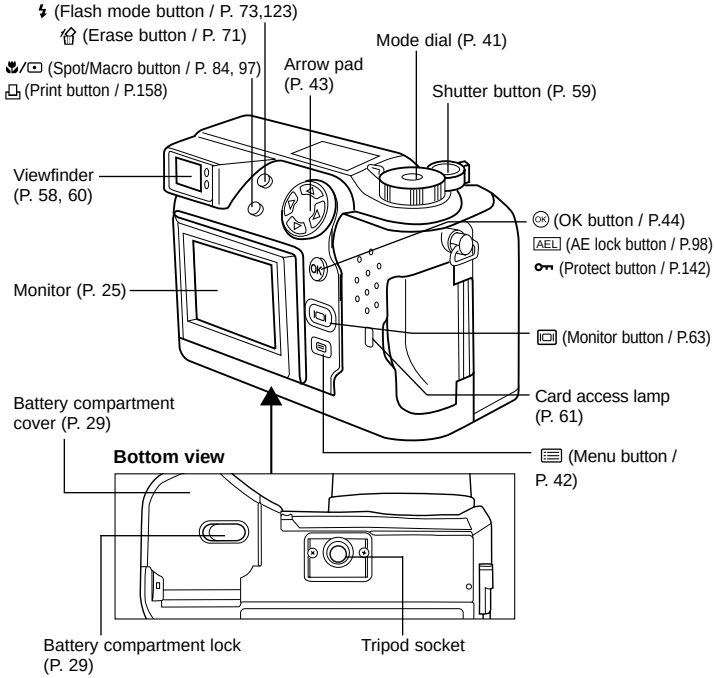
SmartMedia Instructions



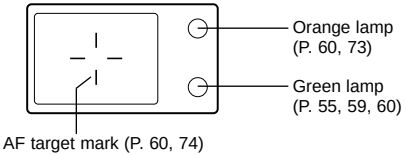
Names of parts

Camera

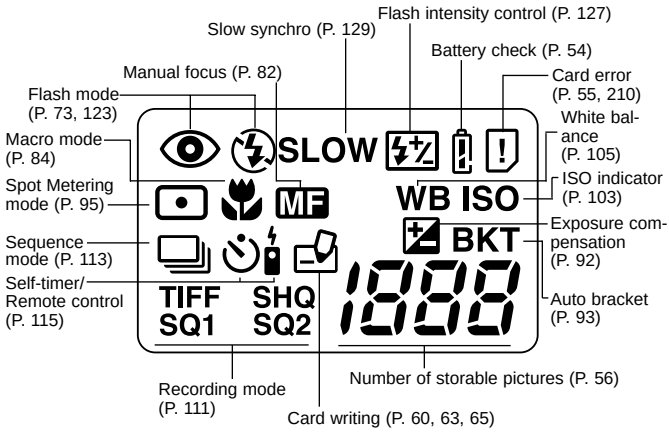



(Flash mode button / P. 73,123)
(Erase button / P. 71)
Mode dial (P. 41)
(Spot/Macro button / P. 84, 97)
(Print button / P.158)
Arrow pad (P. 43)
Shutter button (P. 59)
Viewfinder (P. 58, 60)
(OK button / P.44)
AEL (AE lock button / P.98)
(Protect button / P.142)
Monitor (P. 25)
(Monitor button / P.63)
Card access lamp (P. 61)
Battery compartment cover (P. 29)
Bottom view
(Menu button / P. 42)
Battery compartment lock (P. 29)
Tripod socket

Viewfinder

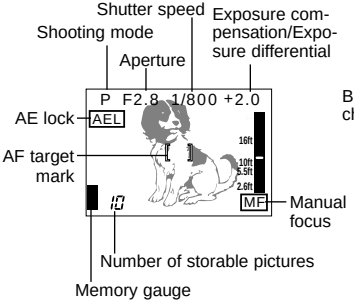

Orange lamp (P. 60, 73)
Green lamp (P. 55, 59, 60)
AF target mark (P. 60, 74)

Control Panel Display

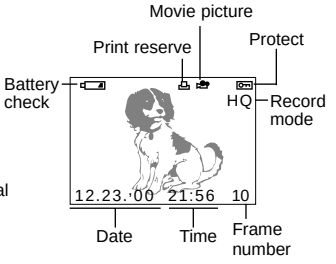


Monitor Display

(During Shooting)



(During Playback)



- Other data from when the shot was taken can also be displayed during image playback. (P.145)

CAMEDIA

Chapter

1 Getting Started

- *This chapter describes the things you need to know before you can use your camera. These include the procedures for loading the batteries and SmartMedia card and for using the Mode dial and menu screens.*

Attaching the strap and lens cap

Use the procedure below to attach the strap and lens cap to the camera.

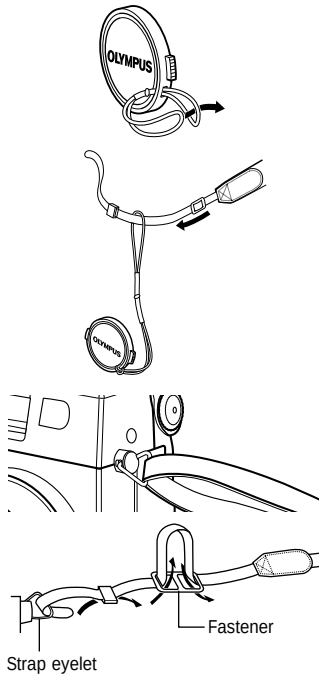
1 **Thread the cord through the lens cap in the direction indicated by the arrow in the figure.**

2 **Thread the strap through the lens cap cord.**

3 **Then thread the strap through strap mount.**

4 **Thread the strap through the loop and fastener as indicated by the arrows in the figure. Then check that the strap does not loosen or come undone when pulled.**

5 **Repeat steps 3 and 4 to attach the strap to the mount on the other side of the camera.**



CAUTION

- When the camera is hanging by its strap, ensure that it is not weighed down by other objects. This could result in personal injury or damage to the camera.
- Take care to attach the strap correctly as described above. If the strap is attached incorrectly in any way and the camera comes loose or is dropped as a result, Olympus accepts no liability whatsoever for any injury or damage that may arise.

Loading the batteries

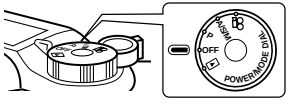
The camera uses 2 CR-V3 lithium battery packs or 4 AA-size nickel-metal hydride (NiMH) batteries, nickel-cadmium (Ni-Cd) batteries, alkaline batteries or lithium batteries.

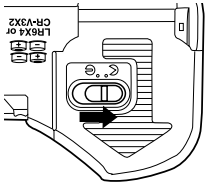
1 **Check that the Mode dial to "OFF".**

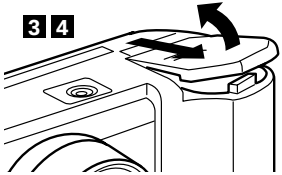
2 **Slide the battery compartment lock towards the ⋑ icon.**

3 **Slide the battery compartment cover in the direction indicated by the arrow on the cover.**

4 **Open the battery compartment cover.**

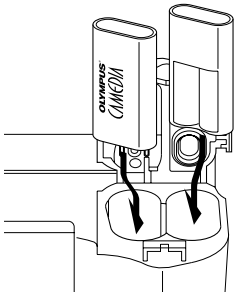






5 **Load the batteries.**

- If you are using lithium battery packs, ensure that you load the battery packs in the correct direction, as shown in the figure at right. If you try to load a battery pack backwards, it will only go in partway.



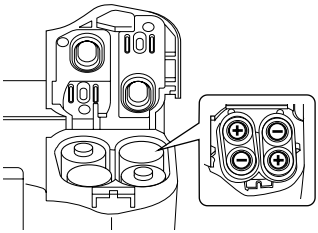
5 If you are using lithium battery packs.

- If you are using AA-size batteries, ensure that battery polarities (+ and -) are as shown in the figure at right.

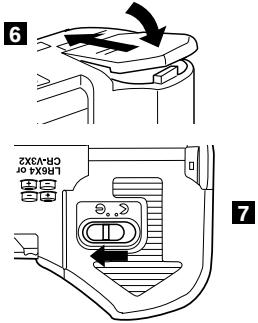
6 Close the battery compartment cover by pressing it down onto the batteries and sliding it in the opposite direction to the arrow on the cover.

- Pressing on the edge of the battery compartment cover will make it more difficult to close.
- The cover is locked in the closed position.

7 Slide the battery compartment lock towards the ⊖ icon.



5 If you are using AA-size batteries.



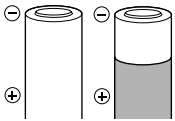
CAUTION

- CR-V3 lithium battery packs cannot be charged.
- Do not attempt to remove the labels from CR-V3 lithium battery packs. Where the terminals are covered with a protective sticker (insulating cover), peel off that sticker only.
- The performance of alkaline batteries varies greatly and is particularly poor at low temperatures. The use of lithium battery packs or NiMH batteries is recommended.
- Do not use manganese batteries. Please read the notes on handling batteries. (P.8)
- Soiling on the terminals inside the battery compartment will shorten the life of the batteries considerably. Take care not to touch the inside of the battery compartment when removing the batteries.
- If the camera is left for 1 hour with the batteries removed, all the internal settings revert to the default settings.

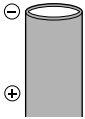
WARNING

Never use batteries from which the external seal (insulating cover) has been partially or entirely removed, or batteries that are cracked or split. Such batteries can leak battery fluid, overheat or burst if used. Some commercially available batteries are sold with the external seal (insulating cover) partially or completely removed. Never use batteries of this type.

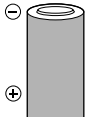
Batteries of the type shown below must not be used.



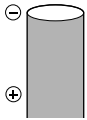
Where the external seal (insulating cover) is entirely removed (bare battery) or partially removed.



Where the negative (-) terminal is flat and a part of the terminal is covered by the external seal (insulating cover).



Where part of the negative (-) terminal is raised but is not covered by the external seal (insulating cover).



Where the negative (-) terminal is flat and is not covered by the external seal (insulating cover).

Life of the lithium battery pack (included)

The table below provides an approximate guide to the number of shots that can be taken and the available playback time using the CR-V3 lithium battery pack supplied with the camera.

However, note that the battery life can vary greatly depending on the battery type and brand and the conditions under which the camera is used.

Life of the CR-V3 lithium battery packs supplied with the camera

Photography/Display	Conditions	Battery Life
Number of shots	①	Approx. 400
Playback time	②	Approx. 360 minutes

* The figures in the table are for reference purposes only. Actual results may differ.

Conditions

① Two continuous shots repeated at 10-minute intervals at normal temperature (77°F). Flash used for 50% of the shots, with the zoom function used in every shot and full-time AF and digital zoom both switched off. (No images displayed and no communication with a PC.)

② Continuous display in Automatic playback mode, repeatedly switching the camera back on immediately after it automatically powers off and then restarting Automatic playback.

CAUTION

- If the camera is connected to a computer, the optional AC adapter should be used.
- In the situations listed below, the camera consumes power even without shooting pictures or movies and the number of storable pictures decreases.
 - If you hold the shutter button down halfway in a shooting mode so that the autofocus mechanism operates repeatedly.
 - If you repeatedly use the zoom.
 - If full-time AF is switched on.
 - If you leave the monitor switched on in Display mode for long periods.
 - During communication with a computer.

Using a domestic AC wall outlet

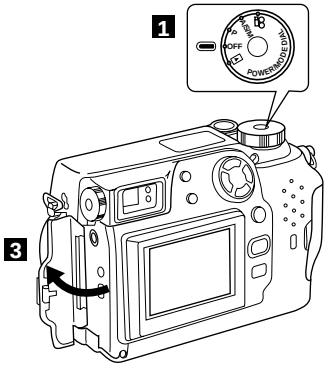
To connect your camera to an ordinary domestic AC wall outlet, you need the optional AC adapter.
Use an AC adapter designed for the area where camera is used.
Consult your nearest Olympus dealer or service center for details.

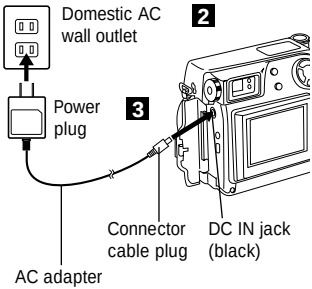
1 **Check that the Mode dial to "OFF".**

2 **Plug the AC adapter securely into a domestic AC wall outlet.**

3 **Open the connector cover on the camera and plug the AC adapter connector cable into the DC IN jack.**

4 **After using the AC adapter, always switch off the camera and unplug the AC adapter cable first from the camera and then from the domestic AC wall outlet.**





CAUTION

- When used for long periods, the AC adapter may become warm. This is normal.

⚠ WARNING

Incorrect use may cause a fire, electric shock or burns.

- Be sure to use only the Olympus AC adapter. The use of other AC adapters could damage the camera or power supply and cause other unforeseeable accidents.
- Use an AC adapter designed for the area where camera is used. Consult your nearest Olympus dealer or service center for details.
- Ensure that the AC adapter is properly plugged into the power outlet before use.
- Never connect or disconnect the AC adapter with wet hands.
- If the AC adapter cable is hot, smells scorched or is emitting smoke, unplug it immediately and contact your nearest Olympus service center.
- Make sure that the camera is switched off before connecting or disconnecting the AC adapter.
- When unplugging the AC adapter from the AC wall outlet, always pull the adapter itself, not the cable. Never unduly pull, bend, twist or bundle the cable.
- If the cable is damaged or cut or if there is a loose connection in the plug, contact your nearest Olympus service center immediately.
- Disconnect the AC adapter from the camera and the AC wall outlet when it is not in use.

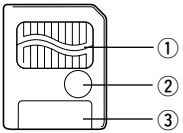
Inserting and removing SmartMedia cards

About SmartMedia card

SmartMedia card is the recording media used by the Olympus CAMEDIA Digital Camera to record your pictures in the same way as film in a conventional camera. However, the images recorded on a SmartMedia card can be deleted or replaced and can also be transferred to a personal computer for editing. In these Instructions, SmartMedia cards are often referred to simply as "cards".

Compatible SmartMedia

- Enclosed 8 MB Standard Card (with Panorama Stitching function)
- Optional Olympus 4, 8, 16, 32 and 64 MB cards
- Third-party 3-volt (3.3 V) 4, 8, 16, 32 and 64 MB cards



① **Contact area**
Area used for electrical contact with the camera.

② **Write-protect area**
To write protect the card, affix one of the enclosed write-protect stickers here.

③ **Index area**
Use this area to attach one of the enclosed labels showing what is stored on the card.

Notes on handling SmartMedia

- Operating temperature: 32°F to 131°F; Storage temperature: -4°F to 149°F
- Keep the cards in its protective static-free case when it is being stored or carried.
- Do not bend a card or subject it to impacts.
- Be sure to read the SmartMedia instructions (enclosed).
- Do not directly touch the card contact area with your hands.
- Third-party 5-volt cards cannot be used. Use an Olympus card or a third-party 3-volt (3.3 V) card.

CAUTION

- If you use a non-Olympus brand commercially available card or card that has been formatted on a personal computer or other device, it may not be recognized by the camera. In this case, the card should be initialized (formatted) on the camera before use. (P.154)

Inserting a card

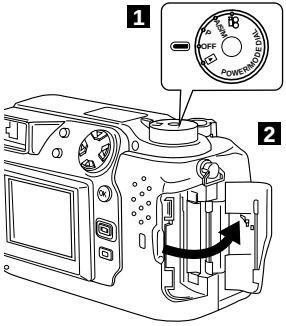
1 **Check that the Mode dial to "OFF".**

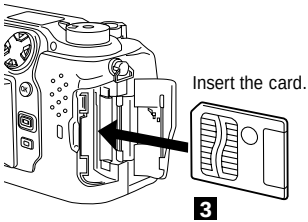
2 **Open the card cover.**

3 **Insert the card in the direction shown in the figure.**

- Note the orientation of the card. If it is inserted incorrectly, it may become jammed.

4 **Close the card cover.**





Removing a card

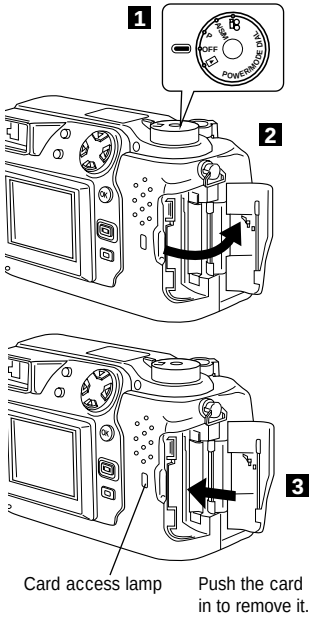
1 **Check that the Mode dial to "OFF".**

2 **Open the card cover.**

3 **Push the card in.**

- The card pops out for easy removal.

4 **Grasp the card and pull it out.**



Notes on Removing a Card

- **Never open the card cover, eject the card, remove the batteries or unplug the AC adapter while the card access lamp is lit. This could destroy the data stored on the card.**

CAUTION

- Destroyed data cannot be recovered.

Setting the date and time

Use the procedure below to set the date and time on the camera's internal clock. The date and time can then be imprinted on your shots.

1 **Remove the lens cap.**

2 **Set the Mode dial to "P", "A/S/M", " " or " ".**

- When no images are recorded on the card, select a mode other than " ".

3 **Press the (Menu) button.**

- The menu screen appears.

4 **Press △ or ▽ on the Arrow pad to select "MODE SETUP", then press ▷.**

- "SETUP" is displayed.

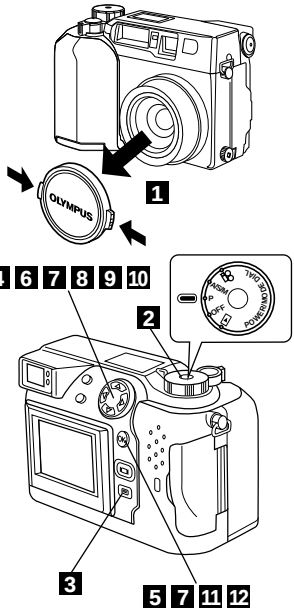
5 **Press the [OK] button.**

- The MODE SETUP screen appears.

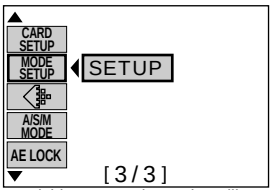
6 **Press △ or ▽ to select .**

7 **Press ▷ to select "SETUP", then press the [OK] button.**

- The date/time setting screen appears.



Monitor



(This screen shows the still picture shooting menu.)

8 When ↻ is selected, use △ and ▽ to select the date format.

- The available formats are as follows:
 DMY (Day-Month-Year)
 MDY (Month-Day-Year)
 YMD (Year-Month-Day)

9 Press ▷ to adjust the "M" setting.

10 Press △ or ▽ to set the month. Check that the month is correct and then press ▷ to move to the Day setting.

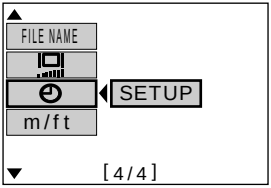
- Repeat the procedure until you have set the minutes.

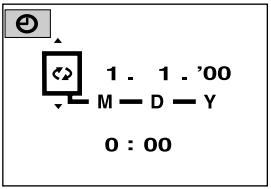
11 Press the [OK] button.

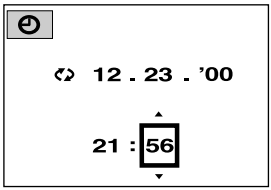
- To set the clock precisely, press the [OK] button when the time is at 0 seconds.
- The MODE SETUP screen reappears.

12 Press the [OK] button repeatedly until the menu disappears.

- These settings are retained when you switch the camera off.







MEMO

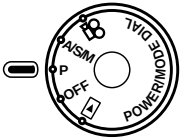
- The year 2000 is shown as '00.

CAUTION

- The adjusted date and time will revert to the default setting if the camera is left without batteries for approximately 1 hour (based on Olympus test conditions). If this occurs, set the date and time again.
- We recommend that you check that the date and time are set correctly before taking important pictures.
- If the card contains no recorded images when the Mode dial is set to " ▶ ", the menu screen does not appear when you press the MENU (Menu) button.
- If you switch the camera off, the camera retains date/time setting until the setting is changed.

Using the Mode dial

The Mode dial settings are "P" (Program mode), "A/S/M" (Still shooting mode), Still picture shooting mode is composed of these two modes, " " (Movie record mode), "OFF" (camera off) and " " (Playback mode).
The Mode dial provides an easy way to switch the camera on and off or select the mode.



Camera Modes

"P" and "A/S/M" (Still picture shooting mode)

Setting the Mode dial to "P" or "A/S/M" switches the camera on in Still picture shooting mode.
In "P" (Program mode), the camera automatically selects the optimal aperture and shutter speed, allowing you to take properly exposed photographs simply by pressing the shutter button.
"A/S/M" (Still Shooting mode) allows you select "Aperture Priority mode", "Shutter Priority mode" or "Manual mode" from the Still picture shooting menu. (P.90-93) You can then select your own photography settings to achieve the desired effect.

" " (Movie record mode)

Setting the Mode dial to " " switches the camera on in Movie record mode. This mode allows you to shoot movies.

"OFF" (Camera off)

Setting the Mode dial to "OFF" switches the camera off.

" " (Playback mode)

Setting the Mode dial to " " switches the camera on in Playback mode and allows you to view pictures recorded on a card.

Using the menus

You can use the menus to access and select a wide range of camera settings. The menus are shown on the monitor and vary depending on the Mode dial setting.

Refer to the shooting menu and playback menu options (P.46-49) to select the function you want to use. The Mode dial settings are determined by the selected function.

Still picture shooting menu: P or A/S/M
Movie record menu: 🎥
Still picture playback menu: ▶
Movie playback menu: ▶

1 Press the (Menu) button.

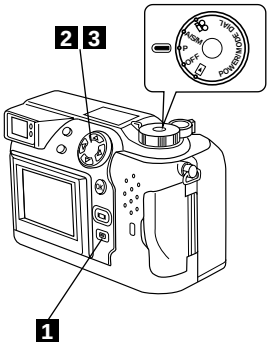
- The menu appears on the monitor.

2 Press △ or ▽ on the Arrow pad to select the desired menu option.

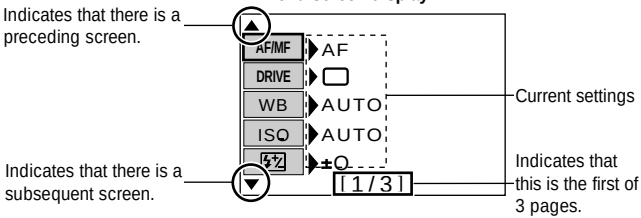
- The green frame moves and the option name appears in green.
- To select "MODE SETUP", see P.170-172.

3 Press ▷ to view the settings for the selected option.

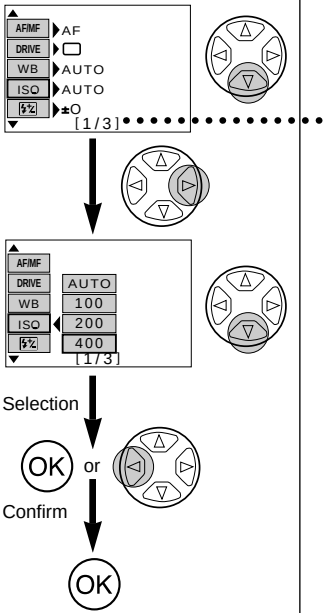
- The green frame moves right and a list of settings for the selected option appears.



Menu screen display

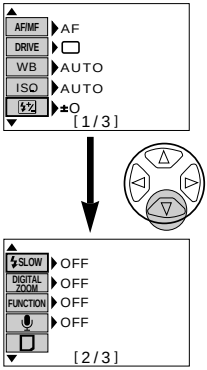


(Example) :
Selecting "400" as the ISO setting



- To save the current settings and exit Menu mode, press (OK) again at this point. Pressing (OK) once merely selects the settings.
- Some settings also allow you to shoot pictures at the confirmation stage.
- Note that if you press the (Menu) button instead of the (OK) button to exit Menu mode, the setting is not saved.

(Example) :
Moving to the second and subsequent menu pages



- You can move from page 1/3 to page 3/3 by pressing (▲) on the Arrow pad.

4 **Use △ or ▽ to select the setting.**

- The selected setting is displayed in green.
- If the selected setting has additional options displayed on the right, proceed to step **5**. If not, proceed to step **6**.

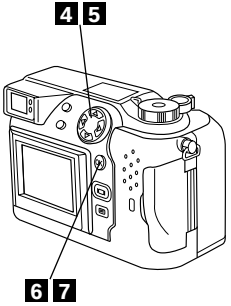
5 **Where the selected setting has additional options, press ▷ to move to the next set of options and press △ or ▽ to select a setting.**

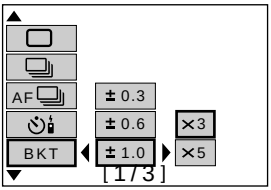
6 **When you have finished selecting the setting, press the [OK] button or ◁ to return to the previous option.**

- The green frame moves left and the selected setting is displayed on the right.
- In a shooting mode (the Mode dial set to any setting other than "▶"), the camera is ready to shoot at this point.

7 **Press the [OK] button.**

- The selected setting is saved and the menu screen is replaced by the normal screen.





(Example) BKT setting

Tips

- When you want to return to the previous page (or proceed to the next page) in a menu screen:
 → When the selection frame in the menu is at the bottom (or top) of the screen, press ▽ (or △) on the Arrow pad to move to the next page. If you are on the last page, pressing ▽ returns you to the first page. Likewise, pressing △ on the first page moves you to the last page.
- When you want to cancel menu operations:
 → Press the (Menu) button. The settings are discarded and the normal screen reappears.
- When the menu screen does not appear in Playback mode:
 → If the card contains no images, the menu screen is not displayed.
- When you want to save the settings:
 → In "MODE SETUP", set "ALL RESET" to "OFF". The settings are then retained without being deleted even if you switch the camera off. (P.173) The settings specified in "MODE SETUP" are saved when you switch the camera off, regardless of whether "ALL RESET" is set to "ON" or "OFF".
- When the selected settings do not work:
 → You did not press the [OK] button after selecting the setting. Select the setting again and then press the [OK] button to confirm the selection.

CAUTION

- If the card contains no images when the Mode dial is set to "▶", the menu screen is not displayed when you press the (Menu) button.
- In a shooting mode, you can select settings and then take pictures without pressing the [OK] button. The settings remain valid until you press the (Menu) button again.
- If you select settings and then press the (Menu) button without first pressing the [OK] button, the settings are discarded and the camera exits menu mode.
- If you set "ALL RESET" to "OFF", the settings are not discarded when you switch the camera off. (P.173)

Shooting menu options

The table below shows the settings available on this camera. Select the settings that best suit your subject. For information on how to decide which options are best for your purposes (P.46-49), refer to the menu operation pages (P.42-45) or the pages covering the respective functions.

Still picture shooting menu

These options are displayed in the still picture shooting modes (P or A/S/M).

Menu page	Setting	Function	Default setting	See
1/3	AF/MF	Selects Autofocus or Manual Focus.	AF	P. 82
	DRIVE	Select this option to use continuous shooting, the self-timer or Auto Bracket.	Single picture shooting	P. 93 P. 113 P. 115
	WB (White Balance)	Sets the white balance for a light source.	AUTO	P. 105 P. 107
	ISO	Sets the ISO setting.	AUTO	P. 103
	⚡½	Setting the intensity of the flash.	±0	P. 127
2/3	⚡ **SLOW**	Sets the flash timing to get the best results in shots of night scenes.	OFF	P. 129
	DIGITAL ZOOM	Allows you to zoom digitally up to 5x.	OFF	P. 85
	FUNCTION	Allows special photography modes. (BLACK&WHITE, WHITE BOARD and BLACK BOARD.)	OFF	P. 118
	▯	Card function for taking panorama picture.	–	P. 120

Menu page	Setting	Function	Default setting	See
3/3	CARD SETUP	Initializes (formats) the card.	–	P. 152,154
	MODE SETUP	Sets the camera mode to suit the type of photography. See the List of mode settings on P. 171.	–	P. 169
		Sets the Record mode. (TIFF/SHQ/HQ/SQ1/SQ2)	HQ	P. 111
	A/S/M MODE	Sets the functions available when the Mode dial is set to A/S/M.	A	P. 88
	AE LOCK	Allows AE lock or multi-metering to be used.	OFF	P. 98

Movie record menu

These menu options are displayed in Movie record mode ().

Menu page	Setting	Function	Default setting	See
1/2	AF/MF	Selects Autofocus or Manual Focus.	AF	P. 82
		Allows you to take pictures using self-timer or remote control.	OFF	P. 115
	WB (White Balance)	Sets the white balance for a light source.	AUTO	P. 105 P. 107
	ISO	Sets the ISO setting.	AUTO	P. 103
	FUNCTION	Allows black and white photography.	OFF	P. 118
2/2	CARD SETUP	Initializes (formats) the card.	–	P. 152,154
	MODE SETUP	Sets the camera mode to suit the type of photography. See the List of mode settings on P.171.	–	P. 169
	HQ SQ	Sets the image quality mode (HQ or SQ).	HQ	P. 111

Playback menu options

Still picture playback menu

These menu options are displayed when still image frames are being displayed.

Menu page	Setting	Function	Default setting	See
1/1		Automatically displays successive frames.	–	P. 141
	INFO	Allows you to view photography details for each image (camera settings, date and time, file name, etc.).	OFF	P. 145
	FUNCTION	Not available.	–	–
	CARD SETUP	Erases all the frames on a card or initializes (formats) the card.	–	P. 152 P. 154
	MODE SETUP	Sets the camera mode to suit the type of photography. See the List of mode settings on P.171.	–	P. 169

Movie playback menu

These menu options are displayed when you are playing back a movie.

Menu page	Setting	Function	Default setting	See
1/1	MOVIE PLAY	Play back movie pictures.	–	P. 69
	INFO	Allows you to view photography details for the movie (date and time, file name, etc.).	OFF	P. 145
	FUNCTION	Allows you to edit a movie or create an index listing the movie details.	–	P. 147
	CARD SETUP	Erases all the frames on a card or initializes (formats) the card.	–	P. 152 P. 154
	MODE SETUP	Sets the camera mode to suit the type of photography. See the List of mode settings on P.171.	–	P. 169

CAMEDIA

Chapter

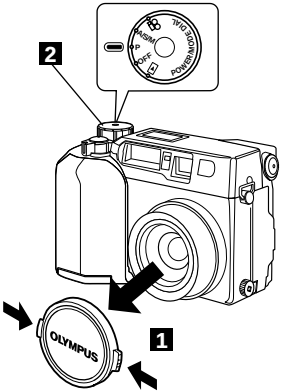
2 Shooting and Playback Basics

- *This chapter covers basic camera operation and describes how to use the camera for simple photography, how to display your pictures and movies, and how to erase images. Familiarize yourself with your camera by reading through this chapter as you use the camera.*

Switching on and off

By turning the Mode dial to any setting other than "OFF", the camera is switched on. Be sure to remove the lens cap.

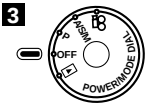
1 Press in on each side of the lens cap as shown in the figure and remove the lens cap.



2 Set the Mode dial to "P".

- The camera switches on.
- Setting the Mode dial to "A/S/M", "P", or "🎥" sets the camera to a shooting mode. The lens extends out from the camera body and the remaining battery charge and number of storable pictures appear on the control panel.
- When you set the Mode dial to "▶", the camera switches on in playback mode and the monitor lights up.

3 When you have finished using the camera, set the Mode dial to "OFF".



- The camera switches off.
- The lens retracts into the camera body and the monitor and control panel switches off.
- Always replace the lens cap when the camera is not in use.

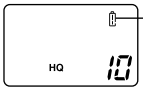
CAUTION

- Always remove the lens cap before you switch the camera on.
- Never open the card cover, eject the card, remove the batteries, or unplug the AC adapter while the card access lamp is blinking. This could not only prevent the recording of your current picture, but could also destroy the data recorded on the card.
- If you do not operate the camera for three minutes, the Power Save mechanism automatically switches off the control panel (sleep mode). Press the shutter button or zoom lever to switch the control panel display back on. Though the camera automatically switches off after approximately four hours in Standby mode, you should make a practice of switching the camera off as soon as possible when you are not taking pictures. (These times may be longer if you are using new batteries and depend on the type of batteries used.)
- Photographed images are saved even if you switch the camera off or replace the batteries.

Checking the remaining battery charge

When you switch the camera on, the level of remaining battery charge is displayed on the control panel. When the remaining battery charge is low, load new batteries. If you are using NiMH or Ni-Cd batteries, recharge the batteries.

lights (and turns off automatically).
The batteries have ample charge and you can take pictures.



blinks and the other icons on the control panel are displayed normally.
The battery charge is low and the batteries should be replaced. You can still take pictures, but the battery power may run out in mid-shot.

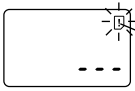
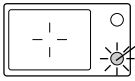
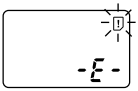
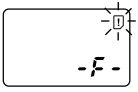
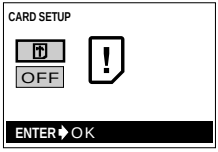
blinks (and disappears after 12 seconds) and the other icons on the control panel disappear.
The batteries are fully depleted and should be replaced immediately.

CAUTION

- When taking pictures on long trips, on special occasions or in cold locations, keep spare batteries handy.
- The length of time for which the different battery check indicators appear varies depending on the type of batteries used.
- If you use NiMH batteries, the blinking battery low warning will appear sooner than when lithium battery packs are used.
- When you are running the camera on batteries that are close the end of their operating life, the camera may emit a rapid series of short beeps as a warning after you take a shot or when you switch the camera on. The number of storable pictures shown on the control panel may also blink. If this happens, your shot will not be taken correctly. Replace the batteries and take the picture again.

Checking SmartMedia card status (Card check)

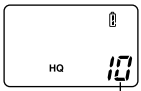
When the camera is switched on in a shooting mode, the camera automatically checks for a card.

Control panel  **View-finder** 	**Displayed when there is no card in the camera or when there is a card fault.** The Card error indicator on the control panel and the green lamp beside the viewfinder both blink. At the same time, the "NO CARD" message appears on the monitor. → Insert a card.
Control panel 	**Displayed when there is a card error.** At the same time, the "CARD ERROR" message appears on the monitor. → Format the card or use a new card.
Control panel  **Monitor** 	**Displayed when the card needs to be formatted.** At the same time, the card formatting screen appears on the monitor. → Format the card. (P.154) Use the Arrow pad to select "FORMAT" and then press [OK] to switch to the card formatting menu. (P.154) When formatting is completed, the monitor display switches back to the screen showing the subject being photographed.

Checking the available shots/time

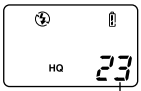
When you switch the camera on with the Mode dial set to "P" or "A/S/M", the number of storable pictures is displayed on the control panel. (When you switch the camera on with the Mode dial set to " 🎥 ", the available shooting time (in seconds) is displayed.)

Still picture shooting mode



Number of storable pictures

Movie record mode



Available shooting time (sec.)

Number of available still shots

Recording mode		Number of pixels	File	Memory capacity			
				8MB	16MB	32MB	64MB
TIFF		1600x1200	TIFF	1	2	5	11
		1024x768		3	6	13	27
		640x480		8	16	33	67
SHQ		1600x1200	JPEG	7	14	29	58
HQ				16	31	64	128
SQ1	HIGH (quality)	1024x768		13	26	53	107
	NORMAL			38	76	153	306
SQ2	HIGH (quality)	640x480		32	66	132	265
	NORMAL			82	165	331	664

Available shooting time (seconds)

Recording mode	Number of pixels	Memory capacity	
		4MB	Over 8MB
HQ	320 x 240	11	15
SQ	160 x 120	52	66

- This table shows the maximum times for movies shot by pressing the shutter button down fully once and shooting continuously. The available shooting time shown on the control panel and monitor is the remaining time for which you can record data on the current card.

When the number of storable pictures in Still picture shooting mode reaches 0.

- When the number of storable pictures reaches 0, the camera emits a warning beep, the green lamp beside the viewfinder blinks and the "CARD FULL" message appears on the monitor. The same thing occurs the next time you switch the camera on. (P.210)
 When this happens, load a new card or one that is not full. Alternatively, erase unwanted images on the card to create free space. (P.71, 152)

MEMO

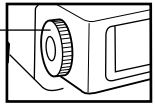
- The number of storable pictures varies depending on the selected recording (image quality) mode and the card capacity.
- See P.111 for information on setting the record quality (quality setting).

CAUTION

- All the tables given here are rough guides only. Actual performance may vary.
- The counter may not decrease by 1 each time a shot is taken or increase by 1 each time an image is erased.
- The number of storable pictures may vary slightly since the amount of data recorded varies depending on the subject photographed.

Adjusting the viewfinder

1 Turn the diopter adjustment dial until you can see the AF target mark clearly.





Holding the camera

Hold the camera firmly with both hands and brace your elbows against your sides to prevent the camera from moving.

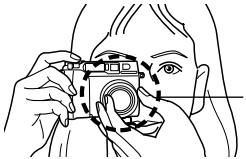
Landscape position



Portrait position



Incorrect



CAUTION

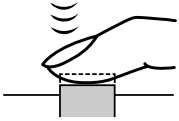
- Do not apply excessive force to the lens.
- Keep your fingers and the strap away from the lens and flash.
- When holding the camera in the landscape position, hold the camera so that the flash is at the top.

Pressing the shutter button

The shutter button has a 2-step operation. Practice using the shutter button before you take pictures.

1 Press the shutter button lightly (press halfway down).

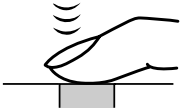
- The focus and image brightness (exposure) are locked.
- The green lamp beside the viewfinder lights.
- To focus on a subject that is not inside the AF target mark, use focus lock. (P.78)



Shutter button

2 Press the shutter button the rest of the way down (press fully).

- The camera takes the picture and emits a short double-beep.
- The card access lamp blinks while the picture is being recorded onto the card.



If the green lamp blinks

To take a picture of a subject that is a distance of 2.6 ft (31.5") or less from the camera, use Macro mode. (P.84) For some subjects, the camera may not be able to lock the focus or exposure. (See "Focusing on difficult subjects (subjects not suited to autofocus)" on P.76.)

Viewfinder



Green lamp (blinks)

CAUTION

- Press the shutter button gently. Using sudden movements or too much force can cause the camera to move and result in blurred pictures (camera shake).

Taking still pictures

P A/S/M

1 Set the Mode dial to "P".

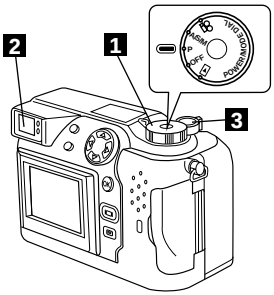
- You can also take pictures with the Mode dial set to "A/S/M". (P.88-91)

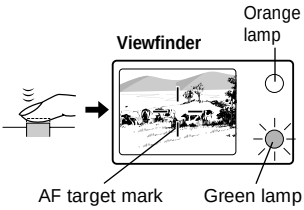
2 Compose the picture by looking through the viewfinder and using the zoom lever. (P.72)

- Compose the shot so that the subject is in the center of the AF target mark.
- The actual shot is slightly larger than the area visible in the viewfinder.

3 Press the shutter button down halfway.

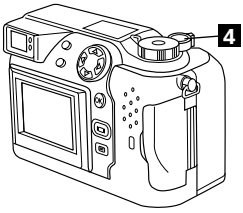
- The focus and exposure are locked and the green lamp beside the viewfinder lights.
- To focus on a subject that is not in the center of the shot, use focus lock. (P.78)
- If the green lamp blinks, the focus or exposure is not locked. See "Focusing on difficult subjects (subjects not suited to autofocus)" on P.76.
- If you have selected full-time AF (P.79), the camera constantly focuses even when the shutter button is not pressed down halfway, making focusing times shorter.

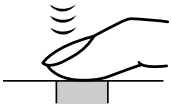


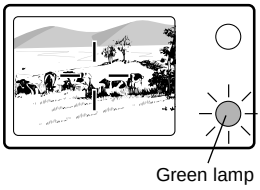


4 Press the shutter button the rest of the way down (press fully).

- When the camera emits a short double-beep, it has finished taking the picture.
- The green lamp blinks as the camera starts recording the picture onto the card.
- The card access lamp blinks while the data is being recorded onto the card.
- To check the picture you've just taken, you can view it on the monitor. → REC VIEW (P.183)
- When the green lamp beside the viewfinder stops blinking, the camera is ready for the next shot.
- If you press the shutter button while the green lamp is blinking, the shutter does not operate. (The time for which the green lamp blinks varies depending on Recording (image quality) mode, but should last between 0.5 and 43 seconds.)
- You can check the camera memory status by using the monitor to take pictures. (P.63)







When the orange lamp lights

The flash fires automatically. (See "Using the flash (Auto-Flash)" on P.73.)

MEMO

- Depending on the working distance, the picture that is actually taken and the picture that you see in the optical viewfinder may be different. In that case, use the monitor to take the picture.

CAUTION

- Never open the card cover, eject the card, remove the batteries, or unplug the AC adapter while the card access lamp is blinking. This could not only prevent the recording of your current picture, but could also destroy the images recorded on the card.
- If the orange lamp beside the viewfinder is blinking, this indicates that the flash is charging. Wait until the orange lamp goes out before pressing the shutter button.

Taking pictures using the monitor

Using the monitor allows you to check the actual field of view in your shot as you are shooting.

P A/S/M

1 Set the Mode dial to "P"

- You can also take pictures with the Mode dial set to "A/S/M". (P.88-91)

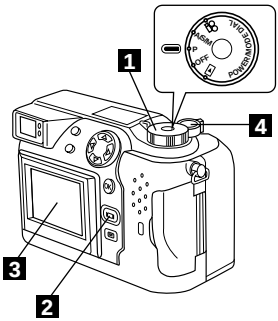
2 Press the (Monitor) button to switch the monitor on.

- Press the button again to switch the monitor off.
- In A/S/M mode, the monitor switches on automatically.

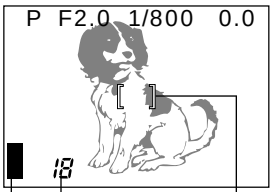
3 Compose the picture by looking at the image on the monitor.

4 Take the picture using the same procedure as for the viewfinder.

- The bottom of the memory gauge lights and the camera starts storing the image onto the card.
- Unless the card is full, you can continue shooting pictures during image recording until the memory gauge is completely lit.
- When you shoot 2 or more pictures, the center of the memory gauge lights.



Monitor

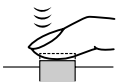


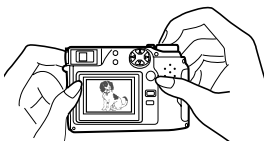
AF target mark

Number of storable pictures

Memory gauge

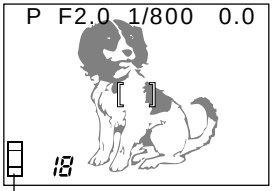
Shutter button





- When the buffer memory is full, the top of the memory gauge lights and no more shots can be taken.
- If "REC VIEW" is set to "OFF" (P.183), photographed images are not shown on the monitor.
- Selecting "CHECK" (P.184) allows you to choose whether to record or discard the picture you have just shot.

Monitor



Memory gauge



No shots taken | 1 shot taken | 2 or more shots taken | No photography possible

CAUTION

- Do not apply excessive force to the monitor.
- Use the image on the monitor only to compose the shot. The monitor is not designed to show details such as the focus or exposure.
- Using the monitor to take pictures increases the time required to write pictures to the card.
- When the subject is at an angle to the camera, the edges of the image may appear jagged on the monitor. This is not a malfunction.
- Light may appear in bands at the top and bottom of the monitor. This is not a malfunction.
- When you are shooting in bright conditions, such as in sunlight, vertical streaks (or smears) may appear on the monitor. If the image is difficult to see, use the optical viewfinder.
- Though you can take pictures using the monitor, using the optical viewfinder tends to reduce camera movement and makes shooting easier. Switching the monitor off also reduces battery consumption, allowing you to take pictures for longer.
- The actual image shot is slightly larger than the image you see in the viewfinder or on the monitor.

Shooting movies

1 **Set the Mode dial to "".**

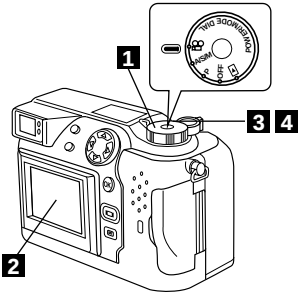
2 **Compose the shot by looking at the image on the monitor.**

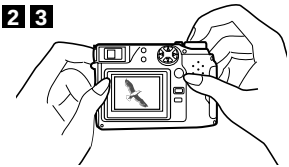
3 **Press the shutter button down halfway. The camera locks the focus and exposure and the green lamp beside the viewfinder lights.**

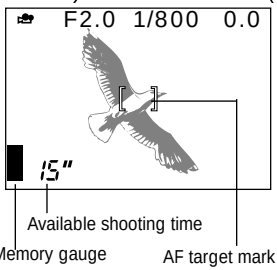
- To focus on a subject that is not in the center of the shot, use focus lock. (P.78)
- If the green lamp blinks, the focus and exposure are not locked. See "Focusing on difficult subjects (subjects not suited to autofocus)" on P.76.

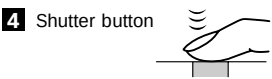
4 **To begin shooting, press the shutter button down fully. To stop shooting, press the shutter button again.**

- The remaining seconds display on the monitor shows the available shooting time.
- The bottom of the memory gauge on the monitor lights and the camera starts recording the movie to the card.
- Once you have been shooting for more than 1 second, the the center of the memory gauge lights.

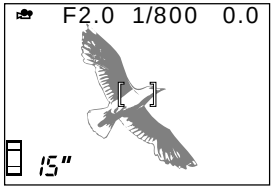






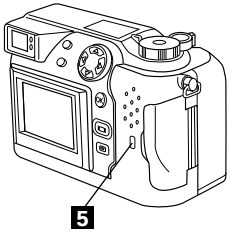


- When the memory buffer becomes full, the top of the memory gauge lights and you can no longer shoot.
- Selecting "CHECK" allows you to choose whether to record or discard the picture you have just shot before it is recorded. (P.184)



5 When the card access lamp starts blinking, recording of the card has begun.

- Even if the gauge displays available memory, you cannot shoot the next picture until the recording of the card is completed.
- When the card access lamp stops blinking, recording of the card has finished. If memory is available in the card, the number of possible shots is displayed on the LCD monitor, and you can begin shooting.



CAUTION

- When "CHECK" is selected, the monitor may go blank for a few moments after you have been shooting for a long period. This is because the camera is processing the images and is not a malfunction.
- The image quality for movies may be lower than that for still images.
- The image actually shot is slightly smaller than the image you see on the monitor.
- Do not apply excessive force to the monitor.
- Use the image on the monitor only to compose the shot. The monitor is not designed to show details such as the focus or exposure.
- When the subject is at an angle to the camera, the edges of the image may appear jagged on the monitor. This is not a malfunction.
- Light may appear in bands at the top and bottom of the monitor. This is not a malfunction.
- When you are shooting in bright conditions, such as in sunlight, vertical streaks (or smears) may appear on the monitor or the picture you shoot.

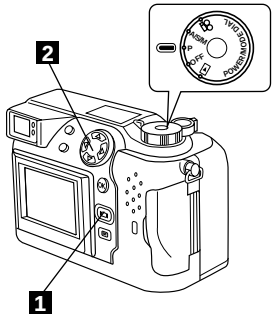
Displaying pictures (Quick View)

When you want to view your shots right after you take them, you can display the images even in Still Shooting mode simply by pressing the (Monitor) button. You can also switch quickly back to the shooting mode if you want to take a picture while you are viewing your shots.

P A/S/M

1 Press the (Monitor) button twice in quick succession.

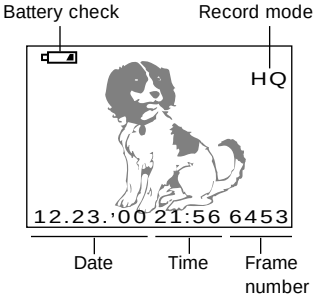
- The monitor switches on and the most recent picture is displayed.
- You can also view shots you have taken by selecting "▶" on the Mode dial. (Single-frame playback)



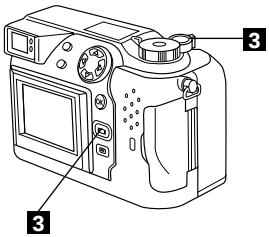
2 You can use the Arrow pad to view other pictures stored on the card.

- ▷ : Displays the next picture.
- ◁ : Displays the previous picture.
- △ : Jumps back 10 pictures.
- ▽ : Jumps forward 10 pictures.

- See P.145 for information on displaying the image information (date and time settings, file name, etc.).
- To play a movie, select an image with the "🎞" icon. (P.69)



3 To return to the shooting mode, press the (Monitor) button again or press the shutter button down halfway.



MEMO

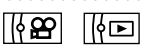
- When you connect the camera to a TV to view your pictures, you can rotate pictures that were taken with the camera on its side so that they are easier to see. (P.143)

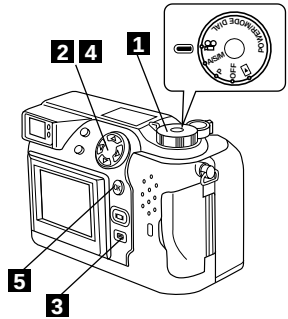
CAUTION

- The camera cannot display pictures with file or folder names not automatically assigned by the camera itself. (P.189)
- When you turn it on, the monitor flashes briefly and the picture appears 0.5 to 2 seconds later. This is not a malfunction.
- Do not press strongly on the monitor. This not only leaves stains on the screen and makes the images difficult to see, it also risks cracking the monitor.

Playing movies

Use the procedure below to view your movies.





1 **Use Quick View (P.67) or set the Mode dial to "▶" to display the movie you have shot. (P.138)**

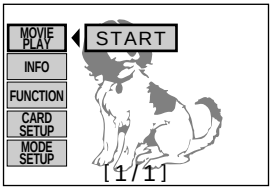
2 **Use the Arrow pad to select an image with the 🎥 icon.**

3 **Press the ☰ (Menu) button.**

- The menu screen appears.

4 **Use the Arrow pad to select "MOVIE PLAY" and then press ▷ to select "START".**

- To cancel movie playback, press the ☰ (Menu) button.



5 **Press the [OK] button.**

- The card access lamp blinks and the movie starts playing when the camera has finished reading it from the card.

To pause the movie...

Press the [OK] button during playback. Press it again the resume the playback.

You can use the Arrow pad to advance the movie frame by frame once playback has finished or while the movie is paused.

△ : Displays the start of the movie.

▽ : Displays the end of the movie.

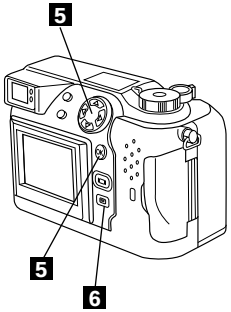
▷ : Advances the movie by one frame each time it is pressed. The movie plays for as long as the button is held down.

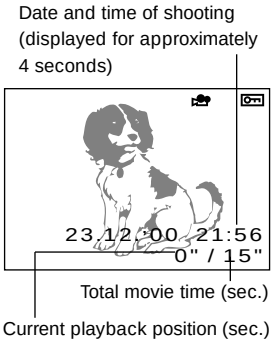
◁ : Moves back through the movie by one frame each time it is pressed. The movie plays in reverse for as long as the button is held down.

If you press the [OK] button when movie playback ends, the movie starts again from the beginning.

6 Press the (Menu) button to exit Movie Playback mode.

- When you want to select another frame, press the (Menu) button again to exit the menu screen and then select the frame using the Arrow pad.





To quickly return from Quick View mode to shooting mode

Press the shutter button down halfway. If you are viewing a movie or using the menus, the viewfinder switches on immediately and your subject is displayed. If the Mode dial is set to "▶", this function cannot be used.

Erasing pictures (One-frame erase)

You can use this function to erase unwanted images. The same procedure can also be used to erase movies. Before you erase a picture or movie, check that there is no write-protect sticker on the card or protection setting (P.142) on the image you want to erase. To erase all the images on a card, see "Erasing all images (all-frame erase)" on P.152.



1 Use the Arrow pad to display the picture you want to erase.

- Immediately after you set the Mode dial to "▶", the last picture you shot is displayed.

2 Press the 🗑 (Erase) button.

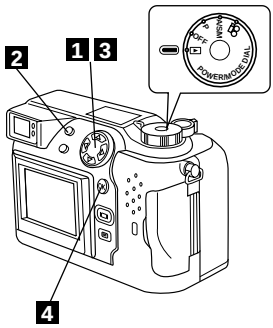
- A confirmation screen appears asking whether you want to erase the picture.

3 Use △ or ▽ on the Arrow pad to select "YES".

- To cancel, select "NO" and press the [OK] button or the 🗑 (Erase) button.

4 Press the [OK] button to erase the displayed picture.

* You can also erase single frames in Index playback mode (P.138) and Close-up playback mode (P.140).



Monitor



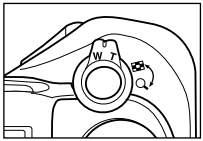
CAUTION

- Take great care never to open the card cover, eject the card, remove the batteries or unplug the AC adapter while a picture is being erased. This could destroy the data stored on the card.

Using the zoom

You can use the camera's 3× zoom for telephoto or wide-angle shots. If "DIGITAL ZOOM" is set to "ON" in the shooting menu (P.85), you can zoom in to even higher magnifications.

P A/S/M



To enlarge the subject in the shot (telephoto)

Turn the lever toward T.

To widen the field of view in the shot (wide-angle)

Turn the lever toward W.



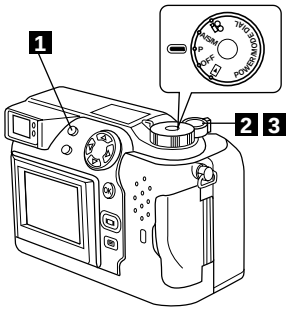
MEMO

- In "P" and "A/S/M" (Still picture shooting mode), you can use both the optical zoom and the digital zoom to zoom in by the equivalent of up to 15x (at a resolution of 640 × 480). (P.85)
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Using the flash (Auto-Flash)

When flash is needed, the orange lamp beside the viewfinder lights when you press the shutter button down halfway. If the flash mode is set to "AUTO", the flash automatically fires in low-light and backlit conditions. See P.124 for information on the other flash modes. The default flash mode is "AUTO".

P A/S/M

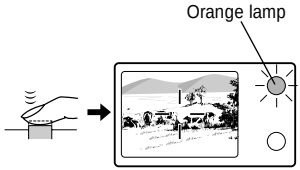


1 Check that the control panel does not show the , or icon.

- If any of these modes is shown, use the (Flash mode) button to cancel it. (See "Selecting the flash firing pattern" on P.124.)

2 Press the shutter button down halfway.

- When the orange lamp beside the viewfinder lights, this indicates that the flash is ready to fire.
- A flashing orange lamp indicates that the flash is charging. Wait until the lamp stops flashing before you press the shutter button.



3 Press the shutter button down fully.

- The flash fires.

To photograph a backlit subject

When photographing a backlit subject, position the subject inside the AF target mark.

Effective flash range

- Wide-angle: Approx. 2.6 ft to 18.4 ft
- Telephoto: Approx. 7.9" to 12.5 ft

Viewfinder



AF target mark

MEMO

- The intensity of the flash can be set to suit the picture subject. (P.127)

CAUTION

- When you are using the flash in Macro mode, especially for wide-angle shooting, the flash may fail to illuminate part of the subject, resulting in uneven lighting. Always check the result on the monitor.
- See P.131 for information on using external flash.
- The flash cannot be used in Sequence mode. (P.113)
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

CAMEDIA

Chapter

3 Focusing

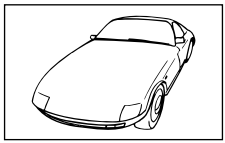
- *This chapter describes how to use some of the camera features, such as focusing and zooming, that are essential to taking effective shots.*

Focusing on difficult subjects (Subjects not suited to autofocus)

The camera's autofocus function can be used effectively for most subjects. However, in situations such as 1, 2 and 3 below, the camera may be unable to focus automatically and the green lamp blinks. In situations 4 and 5, the camera will not focus even though the green lamp lights and the shutter releases. When this happens, use the procedure described below or use Manual focus. (P.82)

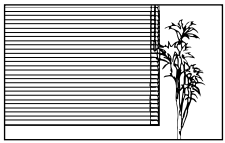
1 Subjects with little or no contrast

- Lock the focus on an object with good contrast that is the same distance from the camera as the subject (P.78). Then recompose the shot and take the picture.



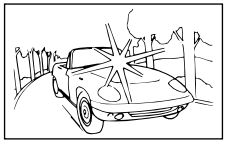
2 Subjects with no vertical lines

- Lock the focus on the subject (P.78) by holding the camera on its side. Then return the camera to the normal position and take the picture.



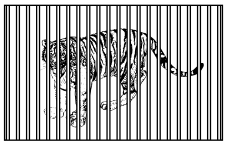
3 Shots where an object in the center of the shot is excessively bright

- Lock the focus on an object with good contrast that is the same distance from the camera as the subject (P.78). Then recompose the shot and take the picture.



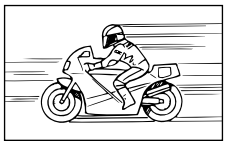
4 Shots that include both near and distant objects

- In this type of shot, your subject may still be out of focus even though the camera's autofocus operates and the green lamp lights. In this event, lock the focus on an object that is the same distance from the camera as the subject (P.78). Then recompose the shot and take the picture.



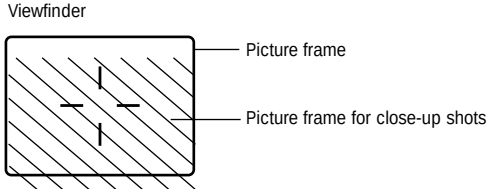
5 Fast-moving subjects

- Lock the focus beforehand on an object that is the same distance from the camera as the intended subject (P.78). Then recompose the shot and take the picture.



Working range

The picture frame in the viewfinder moves lower down in the viewfinder as you get closer to the subject. (This is particularly pronounced when the zoom is set to telephoto.)



Take pictures at distances between 7.9" and ∞ (infinity).

- While the shutter will release for subjects closer than 7.9", the resulting image may be out of focus and incorrectly exposed.
- Using the monitor as a viewfinder is a better way to take close-up pictures. Shot composition is easier as the monitor shows the actual area photographed.
- Note that the camera uses battery power faster when the monitor is used.

Working range

Macro mode	7.9" to 31.5" (2.6 ft) (P.84)
Normal mode	2.6 ft (31.5") to ∞ (infinity)

Focusing on off-center subjects (Focus lock)

If your main subject is not within the AF target mark when you compose your shot, use the procedure below to focus. This is called focus lock.

P A/S/M

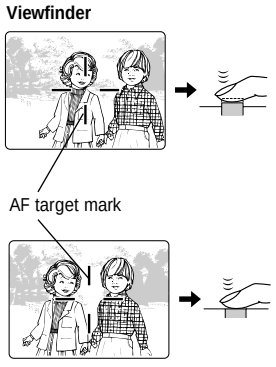
1 Position your main subject inside the AF target marks, and press the shutter button down halfway.

- The exposure for the shot is locked at the same time and the green lamp beside the viewfinder lights.

If the green lamp beside the viewfinder is blinking, the focus and exposure are not locked. Release the shutter button and move the focusing point slightly. Then repeat step 1 until the green lamp stays lit.

2 Recompose the picture while holding the shutter button down halfway.

3 Press the shutter button down fully to take the picture.



Focusing faster (Full-time AF)

Full-time AF is a mode in which the camera repeatedly focuses on the object in front of the camera lens even when the shutter button is not being pressed. This eliminates the need to press the shutter button down halfway and reduces the time lag between the shutter button being pressed down fully and the shutter releasing.
Select the "OFF" setting if you do not want to use this feature. When "OFF" is selected, the camera does not focus until you press the shutter button down halfway.

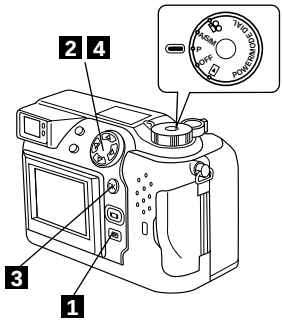
P A/S/M

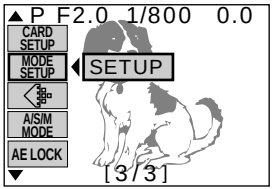
1 **Press the (Menu) button.**
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select "MODE SETUP" and then press ▷ to select "SETUP".**

3 **Press the [OK] button.**
- The MODE SETUP screen appears.

4 **Press △ or ▽ to select "FULL-TIME AF" and then press ▷.**



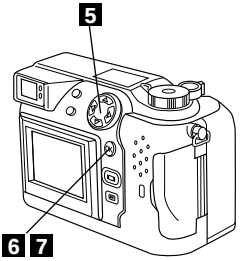


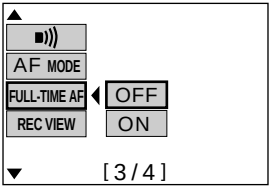
5 **Press △ or ▽ to select "ON" or "OFF".**

"ON": When the camera is set to a shooting mode, it repeatedly adjusts the focus so that it is always focused.
"OFF": The camera does not focus until the shutter button is pressed down halfway.

6 **Press the [OK] button to save the setting and return to the MODE SETUP screen.**

7 **Press the [OK] button repeatedly until the menu disappears.**





CAUTION

- The camera uses battery charge faster when full-time AF is selected.
- Full-time AF only operates when the monitor is switched on. Be sure that the monitor is on.
- The selected setting is retained until changed, even when the camera is switched off.

Selecting a focusing area (AF MODE)

Use the procedure below to select the area used for focusing on the subject.

NORMAL : In this mode, the camera looks at almost the entire screen and automatically selects the subject to be used for focusing. Use this mode for normal photography. (Default setting)

SPOT : In this mode, the camera focuses on the center of the object in the AF target mark in the viewfinder.

P A/S/M

1 **Press the (Menu) button.**
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select "MODE SETUP" and then press ▷ to select "SETUP".**

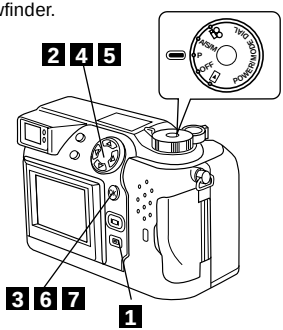
3 **When you press the [OK] button, the MODE SETUP screen appears.**

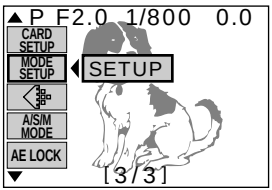
4 **Press △ or ▽ to select "AF MODE" and then press ▷.**

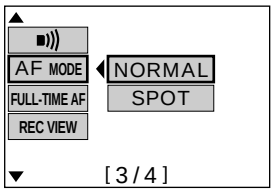
5 **Press △ or ▽ to select "NORMAL" or "SPOT".**

6 **Press the [OK] button to save the setting and return to the Menu screen.**

7 **Press the [OK] button repeatedly until the menu disappears.**







CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Focusing manually (Manual focus)

Manual focus allows you to select a focal distance in advance that matches the distance to the subject. This mode can be used for subjects that are not suited to autofocus and for focusing when you use the monitor to compose the shot.

P A/S/M

1 Press the (Menu) button.

- The menu screen appears.

2 Use △ or ▽ on the Arrow pad to select "AF/MF" and then press ▷.

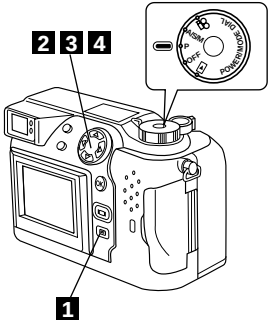
- The menu disappears and the shooting distance selection screen is displayed.

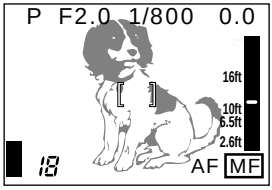
3 Press ▷ to select "MF".

- " MF " appears on the control panel and a distance indicator with a movable cursor appears on the monitor.
- To cancel manual focus, press ◁ on the Arrow pad to select "AF". When " MF " is no longer displayed, press the [OK] button.

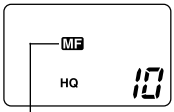
4 Press △ or ▽ to select the distance.

- The image on the monitor is enlarged during manual focusing to make focusing easier to check.





Control panel

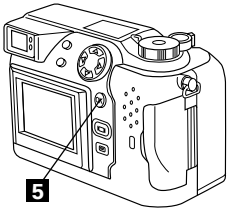


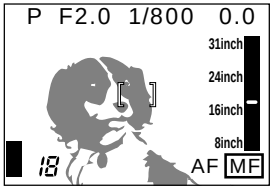
Manual focus

- If you move the cursor to 2.6 ft (31.5") or less, the indicator scale automatically changes to 7.9" - 31.5".
- You can take a picture by pressing the shutter button at this point.

5 Press the [OK] button.

- The setting is saved and "MF" appears in red on the screen.
- To cancel manual focusing, repeat steps **1** and **2**. When the AF/MF selection screen appears, press ◁ to select "AF" and then press the [OK] button.





CAUTION

- When you are using the flash, ensure that the subject for focusing is within the effective range of the flash.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- The distance indicator on the monitor is only intended as a guide. The actual distance may vary slightly.

Focusing on close-up subjects (Macro mode)

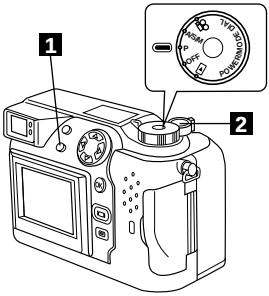
Use Macro mode to shoot close-up subjects.
When the camera is set to telephoto (at the T setting), you can shoot at distances of as little as 7.9" so that a business card fills the entire frame.
Because the area actually photographed differs slightly from the area visible through the viewfinder in this mode, use the monitor as the viewfinder.

P A/S/M

1 Press the ✿/⊙ (Spot/Macro) button until "✿" (Macro mode) appears on the control panel.

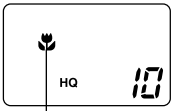
- To cancel Macro mode, press the ✿/⊙ (Spot/Macro) button until the icon on the control panel disappears.

2 Take the shot.



Working range
7.9" to 31.5"

Control panel



Macro mode

CAUTION

- Using the flash in Macro mode may produce a very noticeable shadow.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- When you are using manual focus (P.82), you cannot select Macro mode.

Zooming in further (Digital Zoom mode)

Camedia's digital zoom function provides an additional 5× magnification over and above the optical zoom (for 640 × 480 resolution). The optical and digital zooms used together deliver a combined maximum magnification equivalent to 15x.

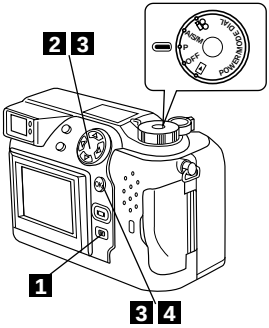
P A/S/M

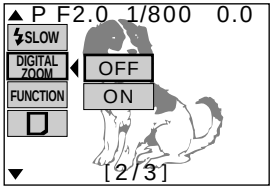
1 **Press the (Menu) button.**
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select "DIGITAL ZOOM" and then press ▷.**

3 **Press △ or ▽ to select "ON" and then press the [OK] button.**
- You can still take pictures at this point.

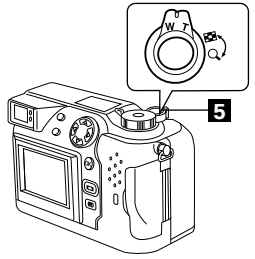
4 **Press the [OK] button.**
- The setting is saved and you exit Menu mode.

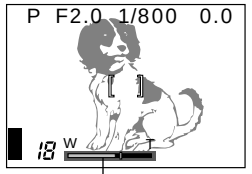




5 Turn the zoom lever towards "T" to enlarge the image (zoom in).

- A zoom bar is displayed on the monitor. The white portion of the bar indicates the optical zoom, and the red portion indicates the digital zoom.
- If you switch the monitor off while using the digital zoom, Digital Zoom mode is automatically cancelled.





Zoom bar

Resolution and Digital Zoom Magnification

Resolution	Digital zoom magnification
1600×1200	1x to 2.5x
1024×768	1x to 3.2x
640×480	1x to 5.0x

CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- If you switch the monitor off, Digital Zoom mode is cancelled and the image scale reverts to normal (100%).
- The quality of images shot using the digital zoom is coarser.

CAMEDIA

Chapter

4 Custom Photography

- *This chapter describes how to select camera settings such as the field of view, brightness, exposure, color tones and quality so that you achieve the desired result. Read the instructions for each of the settings so that you can get the results you want for all types of shots.*

Setting the "A/S/M" dial functions

The "A/S/M" Mode dial setting allows you to select Aperture Priority mode (A), Shutter Priority mode (S) or Manual mode (M). In Aperture Priority mode you can set the aperture, in Shutter Priority mode you can set the shutter speed, and in Manual mode you can set both.

P A/S/M

1 Press the (Menu) button.

- The menu screen appears.

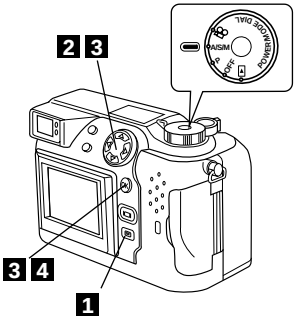
2 Use △ or ▽ on the Arrow pad to select "A/S/M MODE" and then press ▷.

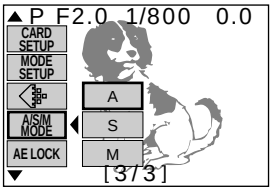
3 Press △ or ▽ to select "A", "S" or "M" and then press the [OK] button.

- Refer to the descriptions of the respective modes for information on how to use the modes. (P.88-91)
- You can still take pictures at this point.

4 Press the [OK] button.

- The setting is saved and you exit the menu screen.





MEMO

- When you have set the Mode dial to "A/S/M", use the monitor to check which shooting mode is actually selected.

CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Controlling the depth of field (Aperture Priority mode)

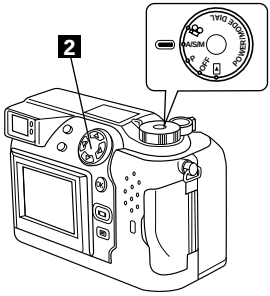
This mode allows you to set the aperture yourself. The camera automatically selects the correct shutter speed. By changing the aperture setting, you can change the appearance of the background.

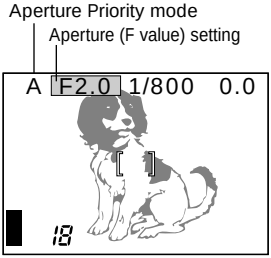
A/S/M

1 In the menu screen, set the "A/S/M MODE" setting to "A" (Aperture Priority mode).

- Use the menu screen to select the shooting mode. See P.88 for more information on setting the A/S/M.
- The aperture setting is displayed in green.

2 Press the Arrow pad to select the Aperture (F value) setting.
Press △ to increase the Aperture (F value) setting.
Press ▽ to decrease the Aperture (F value) setting.





MEMO

- When you set the Mode dial to "A/S/M", the ISO setting is automatically set to 100. You can select 100, 200 or 400 as the ISO setting. (P.103)

CAUTION

- If the flash is set to fire automatically, you cannot set a slower shutter speed than 1/30 seconds.
- If the correct exposure cannot be achieved for the selected setting, the aperture setting is displayed in red. If "▽" is displayed, decrease the aperture setting. If "△" is displayed, increase the aperture setting.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Capturing movement (Shutter Priority mode)

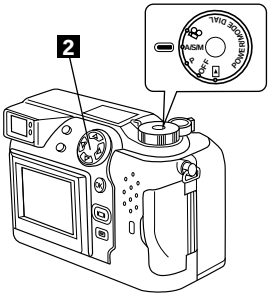
By using fast shutter speeds, you can freeze movement. Conversely, you can use a slow shutter speed to give the impression of flowing movement.

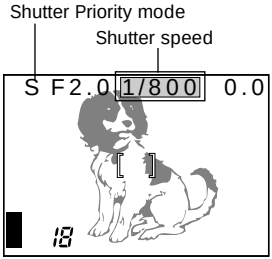
A/S/M

1 In the menu screen, set the "A/S/M MODE" setting to "S" (Shutter Priority mode).

- Use the menu screen to select the shooting mode. See P.88 for more information on setting the A/S/M.
- The shutter speed is displayed.

2 Press the Arrow pad to select the shutter speed.
Press △ to increase the shutter speed.
Press ▽ to decrease the shutter speed.





MEMO

- When you set the Mode dial to "A/S/M", the ISO setting is automatically set to "100". You can select ISO settings of 100, 200 or 400 (P.103). The available shutter speeds are not affected by the ISO setting.
 Available shutter speeds: 4 sec. to 1/800 sec.

CAUTION

- If the correct exposure cannot be achieved for the selected setting, the shutter speed appears in red on the monitor. If "▽" is displayed, decrease the shutter speed. If "△" is displayed, increase the shutter speed.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Selecting the aperture and shutter speed manually (Manual mode)

Manual mode allows you to select the aperture and shutter speed yourself to achieve the desired effect. You can use the exposure status indicator in the viewfinder to check whether the image is correctly exposed.

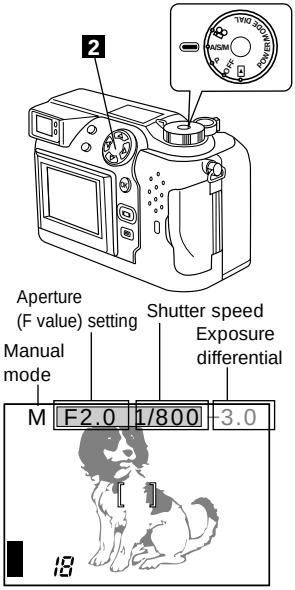
A/S/M

1 In the menu screen, set the "A/S/M MODE" setting to "M" (Manual mode).

- Use the menu screen to select the shooting mode. See P.88 for more information on setting the A/S/M.
- The aperture and shutter speed are displayed in green.

2 Press the Arrow pad to select the aperture (F value) and shutter speed.
Press ◁ to decrease the aperture size (increase the Aperture (F value) setting) and ▷ to increase the aperture size (decrease the Aperture (F value) setting).
Press △ to increase the shutter speed and ▽ to decrease the shutter speed.

- The available shutter speeds are 16 sec. to 1/800 sec.



MEMO

- When you set the Mode dial to "A/S/M", the ISO setting is automatically set to 100. You can select 100, 200 or 400 as the ISO setting. (P.103)

CAUTION

- The exposure indicator in the top-right corner of the viewfinder shows the difference between the exposure calculated from the selected aperture and shutter speed and the camera's correct exposure. The difference is shown in a range from -3.0 EV and +3.0 EV.
- If the image is underexposed by more than -3.0 EV or overexposed by more than +3.0 EV, the exposure indicator turns red.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

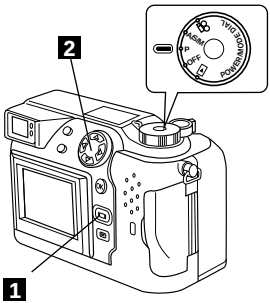
Shooting at stepped exposures (Exposure compensation)

The camera automatically sets the correct exposure for your shots, but you can also adjust the exposure by plus or minus 2 steps in increments of 1/3 of a step. Select a positive compensation value to show white objects more brightly or a negative value to show black objects more intensely black.

P A/S/M

1 If you select "P", switch the monitor on.

- If you select "A/S/M", set the camera to Aperture Priority mode or Shutter Priority mode. (P.88)
- The monitor switches on automatically when you select "A/S/M" or "". The exposure compensation value is shown at the top of the screen.



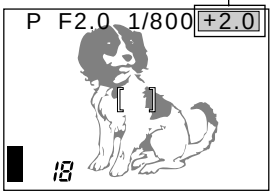
2 Press ▷ to increase the exposure compensation value and ◁ to decrease the exposure compensation value.

- When you select a setting other than "0", appears on the control panel.

−2.0 ±0 +2.0



Exposure compensation



CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- While exposure compensation changes the brightness of the image on the monitor, it may not change the appearance of dimly lit subjects. For this type of subject, check the shot on the monitor.
- Exposure compensation may not work properly for shots taken using flash.

Continuous shooting at stepped exposures (Auto Bracket)

Auto Bracket provides a way of recording multiple images with different brightness settings from a single shot. The focus and white balance are set for the first shot and remain fixed during continuous shooting. You can also specify the number of continuous shots.

P A/S/M

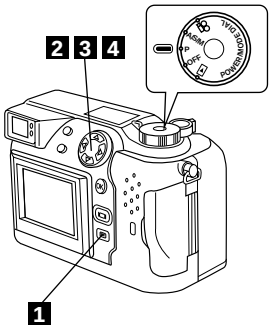
1 Press the (Menu) button.

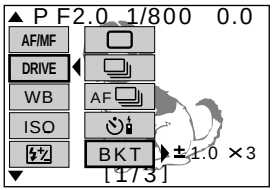
- The menu screen appears.
- If you select "A/S/M", set the camera to Aperture Priority mode or Shutter Priority mode. (P.88)

2 Use △ or ▽ on the Arrow pad to select "DRIVE" and then press ▷.

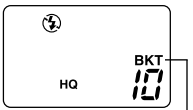
3 Press △ or ▽ to select "BKT" and then press ▷.

4 Press △ or ▽ to select the brightness (exposure) levels and then press ▷.





Control panel



Auto Bracket

5 **Press △ or ▽ to select the number of shots.**

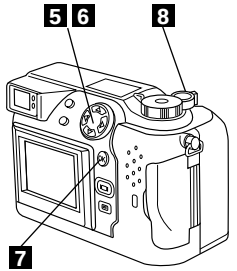
6 **Press ◁ twice to confirm the setting.**

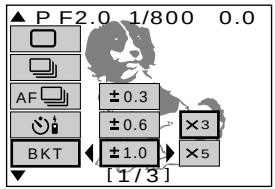
7 **Press the [OK] button repeatedly until the menu disappears. The setting is saved.**

- If you take the shot without pressing the [OK] button, the setting remains valid until you press the the (Menu) button again.

8 **Take the shot.**

- When you release the shutter button during shooting, the camera stops shooting even if the job is not completed. Shooting ends when the specified number of frames have been shot.





CAUTION

- The focus and white balance are determined for the first shot.
- Auto bracket can be used in Program mode, Aperture Priority mode or Shutter Priority mode.
- Auto bracket cannot be used in the TIFF quality mode.
- You can select only 3 as the number of shots in SHQ mode.
- If there is insufficient buffer space available for the selected number of shots, the camera cannot take the next shot.
- Flash cannot be used.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Measuring the subject brightness (Spot Metering mode)

In Spot Metering mode, the camera measures the brightness of the subject. The camera provides two light metering modes: Digital ESP metering and spot metering. The camera's default light metering mode is Digital ESP.
In Digital ESP light metering mode, the camera measures the light at the center of the picture and around the periphery of the picture separately and then selects the optimal exposure.
Spot metering, because it only measures the light levels at the center of the image, allows you obtain the correct exposure for backlit subjects since the exposure is not affected by the background light. The light metering mode changes in the cycle shown below each time you press the ⚘/⊙ (Spot/Macro) button.

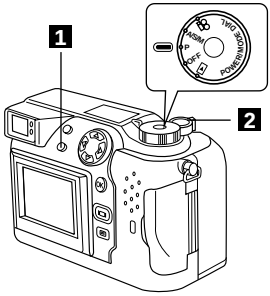
Setting	Function and Purpose
Normal	Digital ESP metering. Used for normal autofocus photography.
Spot metering mode ⊙	Measures light only at the center of the shot.
Macro mode ⚘	Used for close-up shots. (P.84)
Macro + Spot metering mode ⊙ ⚘	Used for spot metering in close-up shots. (P.97)

P A/S/M

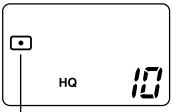
1 Press the ✿/⊙ (Spot/Macro) button until "⊙" (Spot Metering mode) appears on the control panel.

- To cancel Spot Metering mode, press the ✿/⊙ (Spot/Macro) button repeatedly until the icon on the control panel disappears.

2 Take the shot.



Control panel



Spot Metering mode

CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Using Spot Metering in Macro mode

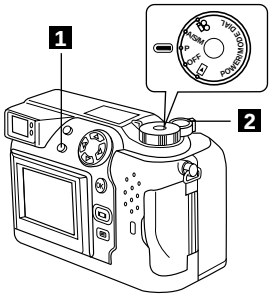
Using Spot Metering with Macro mode allows you to obtain the correct exposure for backlit subjects that are within the macro photography range.

P A/S/M

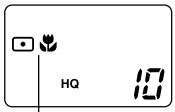
1 Press the (Spot/Macro) button until " " (Macro + Spot Metering mode) appears on the control panel.

- To cancel Macro + Spot Metering mode, press the (Spot/Macro) button repeatedly until the icons on the control panel disappear.

2 Take the shot.



Control panel



Macro + Spot Metering mode

CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Setting the [OK] button functions (Setting AE lock)

Use the procedure below to select the AE lock-related function performed when you press the [OK] button. If you select "SINGLE", the camera applies the AE lock. If you select "MULTI", the camera switches to multi-metering mode. If you select "OFF", neither function is performed.
If the aperture (F value) is not fixed even when setting on the menu, the aperture (F value) when setting (AE lock, multi-metering) to "OFF" is fixed by pressing the shutter button down halfway.

P A/S/M

1 Press the (Menu) button.

- The menu screen appears.

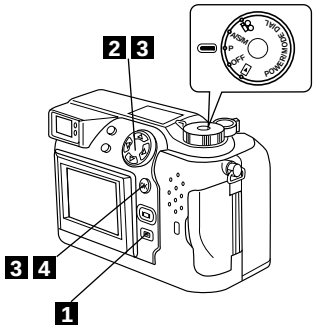
2 Use △ or ▽ on the Arrow pad to select "AE LOCK" and then press ▷.

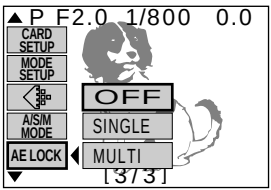
3 Press △ or ▽ to select "OFF", "SINGLE" or "MULTI" and then press the [OK] button.

- See P.99 for information on AE lock (SINGLE).
- See P.101 for information on multi-metering (MULTI).

4 Press the [OK] button.

- The setting is saved and you exit the menu screen.





CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Taking Pictures with the exposure locked (AE lock)

Pressing the [OK] button locks the exposure for the camera's current image. You can use this feature when you want to set the exposure for one scene and then recompose the shot and use the same exposure settings for the new scene. Set the "AE LOCK" setting to "SINGLE" beforehand. (P.98)

P A/S/M

1 Compose the shot with the exposure settings you want to use and press the [OK] button.

- The monitor switches on and " AEL " appears while the camera stores the exposure settings.
- If "MULTI" is selected as the "AE LOCK" setting, the light meter is displayed. Change the setting to "SINGLE". (P.98)

To change the locked exposure:

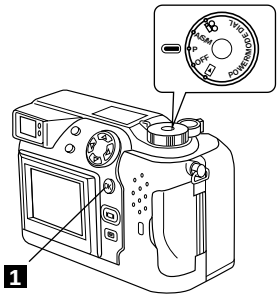
Recompose the shot and press the [OK] button again. The exposure settings are updated each time you press the [OK] button.

To cancel AE lock:

Press ▷ on the Arrow pad. " AEL " disappears.

To ensure that the stored exposure settings are retained after you take the shot (AE Memory):

Press ◁. " MEMO " is displayed.



Monitor

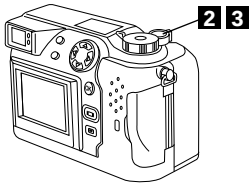


OK

Lock the exposure differential you want to use.



Compose the shot you want to take

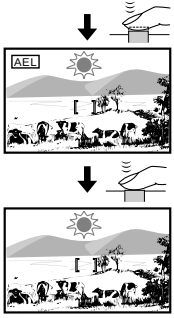


2 Align the AF target mark with the subject of the shot and press the shutter button down halfway.

- The green lamp lights.
- Focusing and white balancing are locked.

3 Press the shutter button down fully.

- When you finish taking the shot, the AE lock is released and "AEL" disappears.
- When "MEMO" is displayed, the locked exposure settings are retained after you take the shot and remain valid for the next shot also.
- You can also use the AE lock after you press the shutter button down halfway.



MEMO

- AE lock can also be used in Spot Metering mode.

AE lock is released when...

The AE lock is released and the AE memory is cleared in the following situations:

- When you press ▷.
- When you change the Mode dial setting.
- When you press the ✿/⊙ (Spot/Macro) button to change the light metering mode.
- When you change the drive mode.
- When you press the ☰ (Menu) button to view the menu screen.
- The monitor switches off.

CAUTION

- You cannot use AE lock while the menu screen is displayed.
- You cannot use exposure compensation and AE lock at the same time.

Measuring the average brightness (Multi-metering)

Multi-metering measures the subject brightness at up to 8 points and then determines the photography settings based on the average of those values. Change the "AE LOCK" setting to "MULTI" beforehand. (P.98)

P A/S/M

1 Compose the shot with the exposure settings you want to use and press the [OK] button.

- The monitor switches on and a light-metering bar appears indicating that the camera is in multi-metering mode. (P.102)
- You can repeat this step to take up to 8 measurements. Any further measurements are not accepted.
- The exposure is calculated as the average of the measured values.

To cancel multi-metering:

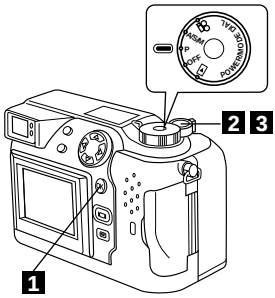
Press ▷ on the Arrow pad. All the measurements are discarded.

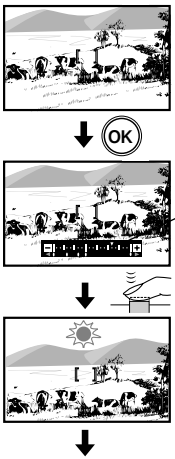
To ensure that the stored multi-metering exposure settings are retained after you take the shot (AE Memory):

Press ◁. " MEMO " is displayed.

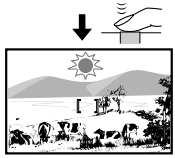
2 Position the AF target mark over the object on which you want to focus and press the shutter button down halfway.

- The green lamp lights.
- Focusing and white balancing are locked.





3 Press the shutter button down fully.

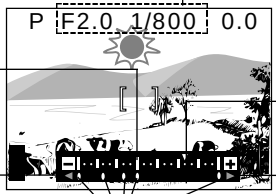


- When you finish taking the shot, the measurements are discarded.
- When "MEMO" is displayed, the multi-metering exposure settings are retained after you take the shot and remain valid for the next shot also.
- You can also use multi-metering after you press the shutter button down halfway.

Example:

Light metering at 5 points ([OK] button pressed 5 times)

Shutter speed and Aperture (F value) calculated as the average of light metering 5 times. These values are updated each time you measure at another point and the average is calculated.



Average value for 5 light measurements. The center of the bar always shows the average value for the measured points.

Indicates the difference between the average value and the measurement for the subject at which the camera is currently pointed. When you press the shutter button down halfway, the measurement is locked and this mark stops moving. (If you do not press the [OK] button, this value is not included in the averaging calculation.)

Measurements for the points at which the [OK] button was pressed. The number of ◆ indicates the number of times the [OK] button was pressed. The locations of the ◆ relative to the center of the bar indicate the amount by which the corresponding measurements differ from the average value.

Where a measurement differs from the average value indicated by the middle of the bar by more than 3 steps, a red ◁ or ▷ is displayed.

MEMO

- This can also be used in Spot Metering mode. However, it is cancelled if you change the light metering mode during multi-metering.
- Multi-metering is cancelled in the same situations in which AE lock is released. (P.100)

Locking the ISO value (ISO setting)

Increasing the ISO setting (the sensitivity) allows you to use fast shutter speeds even in low-light conditions. The available ISO settings are AUTO, 100, 200 (twice the sensitivity) and 400 (four times the sensitivity).
When you select AUTO, the camera automatically selects the best ISO setting for the subject. Of the other settings, using higher values allows you to take shots in low-light conditions.

P A/S/M

1 Press the (Menu) button.

- The menu screen appears.

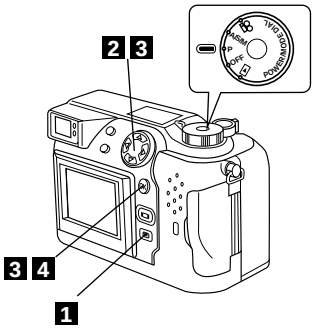
2 Use △ or ▽ on the Arrow pad to select "ISO" and then press ▷.

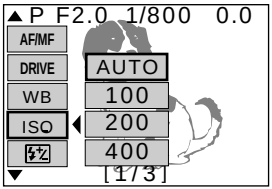
3 Press △ or ▽ to select the "ISO" and then press the [OK] button.

- If you select a setting other than AUTO, "ISO" appears on the control panel.
- In "A/S/M" mode, you can select "100", "200" or "400".
- You can still take pictures at this point.

4 Press the [OK] button.

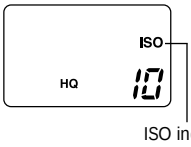
- The setting is saved and you exit Menu mode.





(This screen shows the still picture shooting menu.)

Control panel



ISO indicator

CAUTION

- The ISO settings are based on the film speeds used in conventional photography and are only intended as a guide.
- If you select "AUTO" and then set the Mode dial to "A/S/M", the ISO value is set to 100.
- When you select "AUTO", the camera automatically selects a higher ISO setting if you take a shot in low-light conditions without the flash. This is to prevent blurring due to camera shake.
- Higher ISO settings give increased graininess (noise) in the image.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Selecting the color tone (Preset White Balance)

When the camera's automatic settings do not give the desired result due to the type of light source, you can get better results by selecting a preset white balance setting.

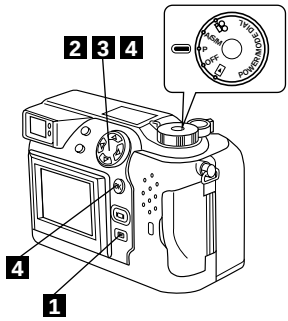
P A/S/M

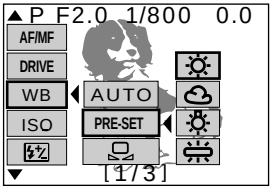
1 **Press the (Menu) button.**
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select "WB" and then press ▷.**

3 **Press △ or ▽ to select "PRE-SET" and then press ▷.**
- To take pictures using the AUTO setting, select "AUTO" at this point and press the [OK] button.

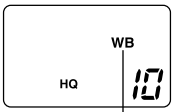
4 **Press △ or ▽ to select the desired setting (see below) and then press the [OK] button.**
- The available settings are as follows:
 - "☼" : Daylight
 - "☁" : Overcast
 - "☼" : Tungsten light
 - "▦" : Fluorescent
- "**WB**" appears on the control panel.
- You can still take pictures at this point.





(This screen shows the still picture shooting menu.)

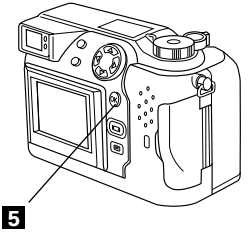
Control panel



Manual white balance indicator

5 Press the [OK] button.

● The setting is saved and you exit Menu mode.



CAUTION

- Use the AUTO setting for normal shots.
- The available preset white balance settings may not cater for some special types of light source.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- Always view your shot on the monitor to check the color tones.

Setting the color tone (Quick Reference White Balance)

When neither the AUTO setting nor the preset white balance settings give the desired result, you can use this procedure to store the light source you are using as the camera's reference white color. The camera then uses the stored reference light source to adjust the overall color balance.

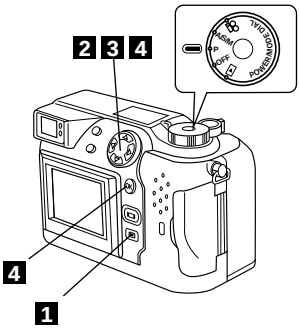
P A/S/M

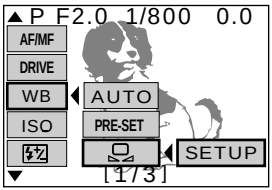
1 Press the (Menu) button.
- The menu screen appears.

2 Use △ or ▽ on the Arrow pad to select "WB" and then press ▷.

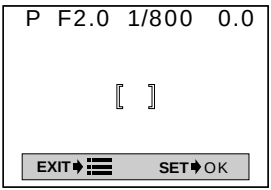
3 Press △ or ▽ to select "" (Quick Reference white balance).
- To take pictures using the AUTO setting, select "AUTO" at this point and press the [OK] button.

4 Press ▷ on the Arrow pad, select "SETUP" and then press the [OK] button.
- The Quick Reference white balance registration screen appears on the monitor.



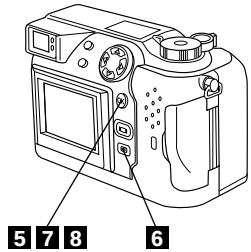


(This screen shows the still picture shooting menu.)



5 Place a sheet of white paper under the light source so that the light strikes the paper (or get someone to hold the paper). Then frame the shot so that the illuminated paper fills the screen and press the [OK] button.

- The white balance is registered and you can use the monitor to check whether the new setting is effective.
 Press the [OK] button repeatedly until the correct setting is achieved.



6 Press the (Menu) button to exit the quick reference white balance registration screen.

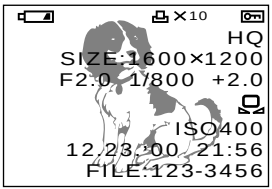
- To reset the white balance again, repeat the procedure from step 4.
- To cancel Quick Reference white balance, select "AUTO" and press the [OK] button.
- You can still take pictures at this point.

7 Press the [OK] button.

8 Press the [OK] button again to save the setting and exit Menu mode.

- When Quick Reference White Balance is set, "" is displayed on image information screen in Playback mode. (P.146)

When still picture playback screen is displayed. (INFO-ON)



CAUTION

- If you cannot distinguish the adjustment, always view your shot on the monitor to check the color tones.
- Use the AUTO setting for normal shots.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Adjusting the color tone (White Balance Correction)

You can also make fine adjustments to the white balance. Use the procedure below to fine tune the color tones.

P A/S/M

1 **Press the (Menu) button.**

- The menu screen appears.

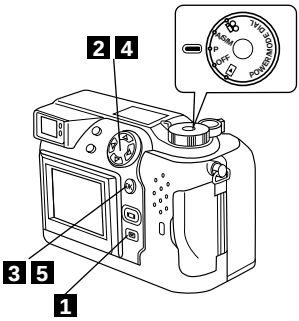
2 **Use △ or ▽ on the Arrow pad to select "MODE SETUP" and then press ▷ to select "SETUP".**

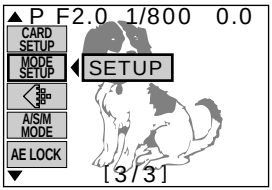
3 **Press the [OK] button.**

- The MODE SETUP screen appears.

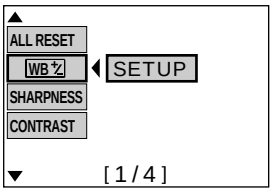
4 **Press △ or ▽ to select " WB " and then press ▷ to select "SETUP".**

5 **Press the [OK] button.**



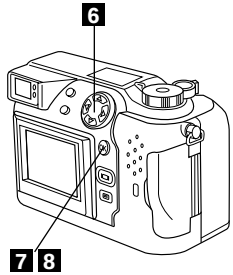


(This screen shows the still photography menu.)



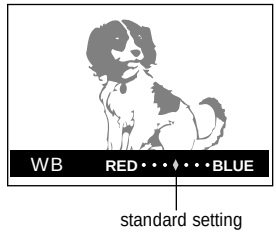
6 **Use ◁ and ▷ to make fine adjustments to the white balance.**

- The center position is the standard setting (no correction).
- Pressing ▷ gives bluer color tones.
- Pressing ◁ gives redder color tones.



7 **Press the [OK] button to save the setting and return to the MODE SETUP screen.**

8 **Press the [OK] button repeatedly until the menu disappears.**



CAUTION

- Use the standard setting (no correction) for normal shots.
- The selected setting is retained until changed, even when the camera is switched off.

Setting the recording quality (Quality setting)

Use the procedure below to select the quality of your shots.
Five quality types available for still pictures are "TIFF", "SHQ", "HQ", "SQ1" and "SQ2". The "SQ2" setting gives the lowest image quality, with the quality increasing sequentially through the "SQ1", "HQ", "SHQ" and "TIFF" settings. The higher the quality setting it will ensure you get high quality images even when the images are printed in enlarged size. Recording and display times are longer for the SHQ and TIFF settings than for the HQ, SQ1 and SQ2 settings. The quality settings when you shoot a movie are "HQ" and "SQ". The "HQ" setting provides higher image quality than "SQ".

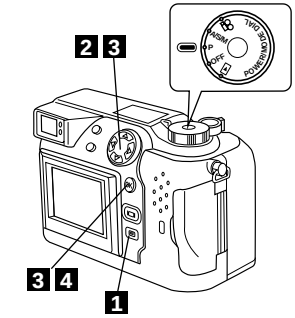
P A/S/M

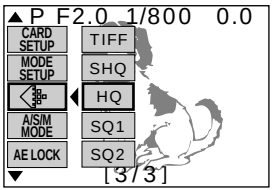
1 **Press the (Menu) button.**
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select " " and then press ▷.**

3 **Press △ or ▽ to select Recording mode and then press the [OK] button.**
- The Recording mode appears on the control panel.
- For still picture shooting, you can specify the resolution for TIFF quality images and the combination of resolution and image quality for SQ1 and SQ2 quality images. (P.179-181)
- You can still take pictures at this point.

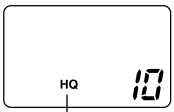
4 **Press the [OK] button.**
- The setting is saved and you exit the menu screen.





(This screen shows the still picture shooting menu.)

Control panel



Recording mode

Still picture quality modes

The tables below show the preset number of recorded pixels (resolution) and compression ratio for each quality mode.

Recording mode	TIFF	SHQ	HQ
Resolution	1600 × 1200		
Compression	Uncompressed	Low compressed JPEG	Standard JPEG

Recording mode	SQ1	SQ2
Resolution	1024 × 768	640 × 480
Compression	Standard JPEG	

Video quality modes

The table below shows the number of recorded pixels (resolution) for each quality mode.

Recording mode	HQ	SQ
Resolution	320 × 240	160 × 120
Frames per second	15	

CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- Lower compression ratios give higher quality enlarged images. Note also that recording and display times are longer for the SHQ and TIFF settings than for the HQ, SQ1 and SQ2 settings.
- The number of storable pictures and the available shooting time vary depending on the quality mode setting. (P.56)

Taking sequential shots (Sequence mode)

Use this mode to take a sequence of continuous shots. The camera sequential shooting for as long as you hold down the shutter button. Sequential shooting stops when you release the shutter button.

P A/S/M

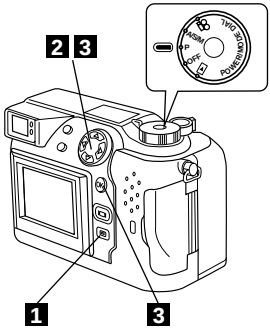
1 **Press the (Menu) button.**

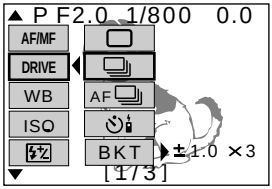
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select "DRIVE" and then press ▷.**

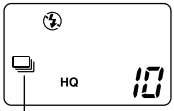
3 **Press △ or ▽ to select "□" (sequential shooting) or "AF□" (AF sequential shooting) and then press the [OK] button.**

- The "□" appears on the control panel.
- When you select "□" (sequential shooting), the focus, brightness (exposure) and white balance are fixed at the first frame.
- When you select "AF□" (AF sequential shooting), the focus, brightness (exposure) and white balance are measured and updated for each frame. Consequently, the sequential shooting rate is slower in this mode.
- You cannot select this mode when TIFF is specified as Recording mode. Change Recording mode setting. (P.111)
- You can still take pictures at this point.





Control panel



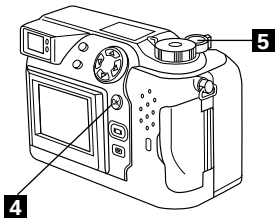
Sequence mode (sequential shooting)

4 Press the [OK] button.

- The setting is saved and you exit the menu screen.

5 Take the picture.

- Sequential shooting continues for as long as you hold down the shutter button.
- Sequential shooting stops when you release the shutter button.



CAUTION

- You cannot use the built-in flash in Sequence mode. (The flash is automatically set to Flash Off mode.)
- When you are using an external flash, select a speed that is fast enough to keep pace with sequential shooting.
- Sequence mode cannot be used with the TIFF quality mode.
- Even if you switch from Sequence mode to another mode after taking sequential shots, you cannot take another picture until the camera finishes recording the sequential shots onto the card.
- To prevent camera shake, the slowest available shutter speed in Sequence mode is 1/30 sec. Dimly lit subjects may appear darker than usual.
- The monitor is switched off in Sequence mode. Use the viewfinder to take pictures in this mode.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- The sequential shooting rate is slower in AF sequential shooting.

Using the self-timer and optional remote control

You can also take pictures using the camera's self-timer function or the oitional remote control. These features are particularly useful for commemorative shots. Be sure to fix the camera on such as a tripod.

P A/S/M

1 **Press the (Menu) button.**

- The menu screen appears.

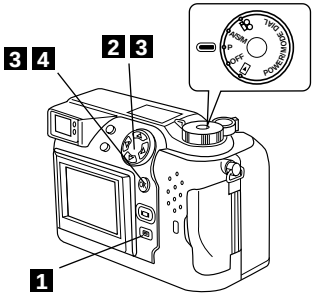
2 **Use △ or ▽ on the Arrow pad to select "DRIVE" for still pictures. or "" for movies and then press ▷.**

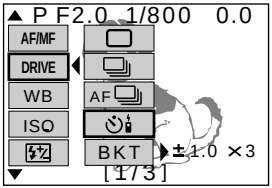
3 **Press △ or ▽ to select "" (self-timer/remote control) for still pictures or "ON" for movies and then press the [OK] button.**

- The "" appears on the control panel.
- You can still take pictures at this point.

4 **Press the [OK] button.**

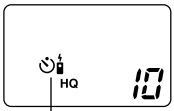
- The setting is saved and you exit the menu screen.





(This screen shows the still picture shooting menu.)

Control panel



Self-timer/remote control

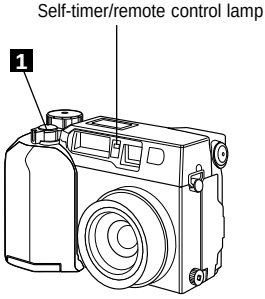
CAUTION

- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

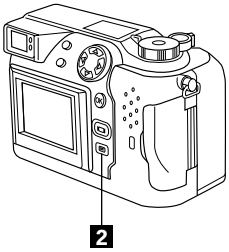
Using the self-timer to take pictures

P A/S/M

1 **When you press the shutter button, the self-timer/remote control lamp on the front of the camera lights for 10 seconds. It then flashes for a further 2 seconds before the shutter releases.**



2 **To stop the self-timer once it has started running, press the (Menu) button.**



CAUTION

- Self-timer/Remote control mode is cancelled after you take a shot using the self-timer.

Using the optional remote control to take pictures

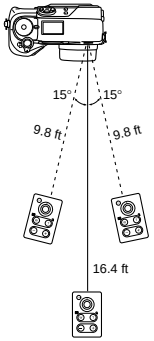
P A/S/M

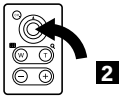
1 Set the camera on such as a tripod and compose the shot.

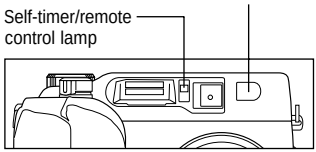
- When you point the remote control at the remote control receiver on the camera and press the W or T button on the remote control, you can use the zoom. The self-timer/remote control lamp on the camera flashes during zooming.

2 When you press the shutter button on the remote control, the self-timer/remote control lamp on the camera flashes for 3 seconds and then the shutter releases.

- If the self-timer/remote control lamp does not flash when you press the shutter button, move closer to the camera and press it again. (Radio wave interference can prevent the lamp from flashing. If this occurs, change the channel as directed in the instructions for the remote control.)







MEMO

- See P.144 for information on using the remote control to play back images.

CAUTION

- In very bright conditions, such as in sunlight, the effective range of the remote control is reduced.
- Do not shine bright lights directly at the remote control receiver.
- Self-timer/remote control mode is not cancelled after you take a picture.

Using special effects (Function mode)

The camera features special effects functions that allow you to take black and white (BLACK&WHITE) shots and to shoot text written on a white board (WHITE BOARD) or blackboard (BLACK BOARD) so that it is easy to read. Note that only the BLACK&WHITE effect is available when the Mode dial is set to " ".

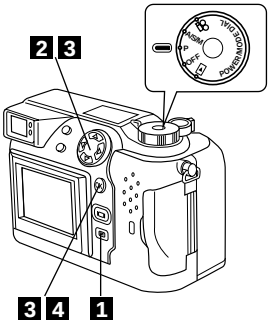
P A/S/M

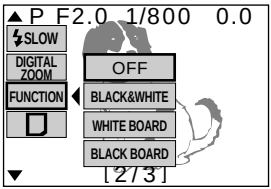
1 Press the (Menu) button.
- The menu screen appears.

2 Use △ or ▽ on the Arrow pad to select "FUNCTION" and then press ▷.

3 Press △ or ▽ to select "BLACK&WHITE", "WHITE BOARD" or "BLACK BOARD", and press the [OK] button.
- If you are shooting a movie, the "WHITE BOARD" and "BLACK BOARD" options are not available.
- You can still take pictures at this point.

4 Press the [OK] button.
- The setting is saved and you exit the menu screen.
- In Still picture shooting mode, the monitor is automatically switched on while you are shooting in Function mode.





(This screen shows the still picture shooting menu.)

CAUTION

- When you select "WHITE BOARD" or "BLACK BOARD", the flash mode is set to " " (Flash Off). (P.126)
- If you select "WHITE BOARD" or "BLACK BOARD" and cannot read the text photographed, try using exposure compensation. (P.92)
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.
- When you set the Mode dial to " ", the "WHITE BOARD" and "BLACK BOARD" options are deactivated.
- You cannot set the white balance in this mode.

Panorama mode

Olympus standard SmartMedia cards include a Panorama mode function that makes it simple to take panorama shots.
You can use the CAMEDIA Master software to merge multiple overlapping shots into a single composite panorama picture.

1 **Press the (Monitor) button to switch the monitor on.**

2 **Press the (Menu) button.**

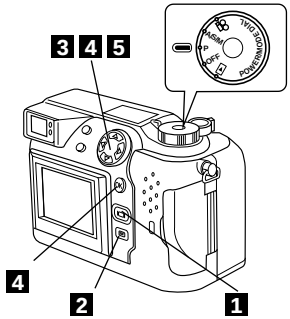
- The menu screen appears.

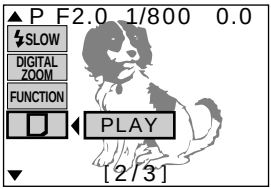
3 **Use △ or ▽ on the Arrow pad to select " ".**

4 **Press ▷ to select "PLAY" and press the [OK] button.**

5 **Use the Arrow pad to specify up, down, left or right as the direction for linking the shots.**

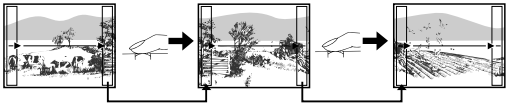
- The linking direction is displayed.





6 Shoot the pictures so that the edges of the subject overlap.

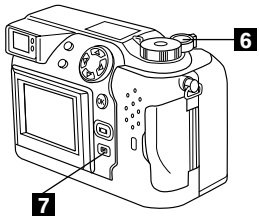
- You can use up to 10 shots to create a panorama picture.



Take the shots so that the right edge of the shot (or the left edge when left overlapping is selected) overlaps the next shot.

7 When you have finished using Panorama mode, press the (Menu) button.

- The frame on the screen disappears and the camera reverts to normal shooting mode.



CAUTION

- Panorama mode is available only when an Olympus brand standard card is used.
- The camera itself cannot create composite panorama images. You must use the CAMEDIA Master software.
- The focus, exposure and white balance are set in the first picture. For this reason, do not make the first frame overly bright by including the sun or another light source in the shot.
- Do not use the Zoom lever after shooting the first picture. This can cause problems with picture linking.
- If you take a large number of panorama shots in HQ or SHQ mode, you may run short of memory on your computer. Use SQ mode to avoid this problem.
- The flash cannot be used in the Panorama mode.
- Pictures taken in TIFF (uncompressed) mode are recorded as SHQ mode images.

CAMEDIA

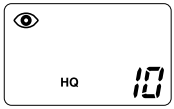
Chapter

5 Using Flash

- *This chapter describes how to take pictures using flash. These descriptions cover the use of both built-in flash and external flash units.*

Selecting the flash firing pattern

Use the information given below as a guide to selecting the best flash mode for the photography conditions. See P.73 for information on using flash to take pictures.



If you select a setting other than Auto-Flash, the flash mode is displayed on the control panel.

The flash modes change in the cycle shown below each time you press the ϟ (flash mode) button.

Flash mode	Function and Purpose
Auto-Flash (P.73, P.125) nothing displayed	Automatically fires in low-light and backlit conditions.
Red-Eye Reduction Flash (P.125)	Reduces the "red-eye" effect (subject's eyes appearing red).
Forced Flash (P.126)	Fires for every shot.
Flash Off (P.126)	Never fires.

Effective flash range:
Wide-angle: Approx. 2.6 to 18.4 ft; Telephoto: Approx. 7.9" to 12.5 ft

MEMO

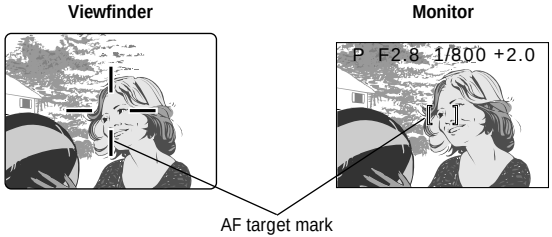
- The intensity of the flash can also be corrected to suit the subject of the picture. (P.127)

CAUTION

- The shutter will not release while the orange lamp is blinking because the flash is being charged. Release the shutter button and wait until the orange lamp goes off before taking the picture.
- When you are using the flash in Macro mode, especially for wide-angle shooting, the flash may fail to illuminate part of the subject, resulting in uneven lighting. Always check the result on the monitor.
- See P.131 for information on using external flash.
- The flash cannot be used in Sequence mode. (P.113)

Firing the flash automatically (Auto-Flash)

In this mode the flash fires automatically in low-light or backlit conditions.



When you are photographing a backlit subject, align the AF target mark with the subject to take the shot.

Reducing red-eye (Red-Eye Reduction mode)

This mode reduces the so-called "red-eye" effect.
In this mode, the camera fires 10 rapid pre-flashes to reduce the severity of the red-eye effect before firing the main flash. In all other respects this mode is identical to Auto-Flash mode.



CAUTION

- The shutter does not release for about a second after you press the shutter button. Take care to hold the camera steady during this time.
- The effectiveness of the red-eye reduction flash varies from person to person. Its effectiveness is also limited if the subject is not facing the camera directly, is not looking at the camera during the pre-flashes, or is too far from the camera.

Using flash for all shots (Forced Flash mode)

Use this mode when you want the flash to fire every time you take a picture. This mode can be used pick out the subject's face when it is shaded, as for shots taken in the shade of a tree, for example. This mode can also be used to correct the adverse effects of backlighting or by artificial lighting.



CAUTION

- Ensure that your subject is within the effective range of the flash. (P.74)
- The effectiveness of forced flash is limited in very bright conditions.

Preventing flash firing in dark conditions (Flash Off mode)

Use this mode to ensure that the flash does not fire in low-light conditions. In this mode, the flash never fires, regardless of how dark it is. Use this mode in situations such as art galleries where flash photography is prohibited, and when you want to shoot evening or night scenes.



CAUTION

- This mode uses slower shutter speeds and a tripod should be used to prevent camera shake. Moving subjects will appear blurred.

Setting the flash brightness (Flash intensity control)

For subjects such as highly reflective objects or small objects shot against a distant background, better results can be obtained by using this function to increase or decrease the intensity of the flash.

P A/S/M

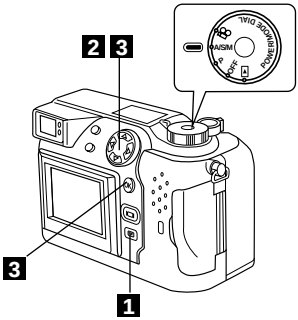
1 Press the (Menu) button.

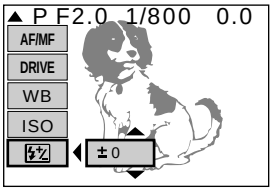
- The menu screen appears.
- If you set the Mode dial to "A/S/M", select Shutter Priority mode or Aperture Priority mode. (P.88)

2 Use △ or ▽ on the Arrow pad to select " " and then press ▷.

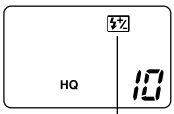
3 Press △ or ▽ to set the amount of flash intensity control and then press the [OK] button.

- The " " appears on the control panel.
- The size of the correction increases in 1/3-EV steps each time you press △ and decreases in 1/3-EV steps each time you press ▽. You can correct the flash intensity by up to ±2 EV. EV are the units used for exposure compensation.
- You can still take pictures at this point.





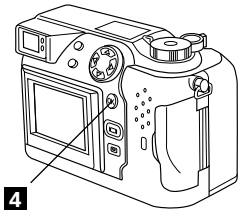
Control panel



Flash intensity control

4 Press the [OK] button.

- The setting is saved and you exit the menu screen.



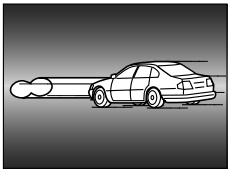
CAUTION

- If the FL-40 external flash is set to "TTL-AUTO" and is used in conjunction with the built-in flash, the flash intensity is corrected for both flashes at the same time.
- If the FL-40 external flash is set to "MANUAL" and is used in conjunction with the built-in flash, only the intensity of the built-in flash is corrected.
- If you use a fast shutter speed, the flash intensity correction may not be sufficiently effective.

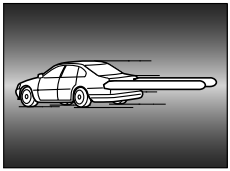
Selecting the flash timing (Slow Synchro)

When you use a slow shutter speed, Slow Synchro flash mode allows you to fire the flash either just after the shutter opens or just before it closes, whichever gives the desired effect. This is especially useful for scenic shots taken at night.

The "ϟ **SLOW 1**" setting fires the flash just as the shutter opens. If you use this setting to photograph a moving car, the final shot will show the headlights moving ahead of the car in the direction the car is moving (1st-curtain effect).



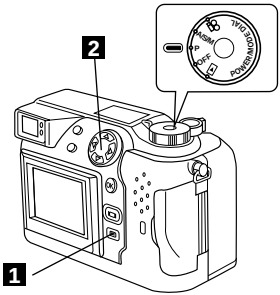
The "ϟ **SLOW 2**" setting fires the flash just before the shutter closes. If you use this setting to photograph a moving car, the final shot will show the tail lights streaming away behind the car (2nd-curtain effect).



P A/S/M

1 Press the (Menu) button.
- The menu screen appears.

2 Use △ or ▽ on the Arrow pad to select "ϟ SLOW" and then press ▷.

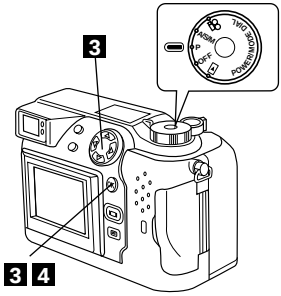


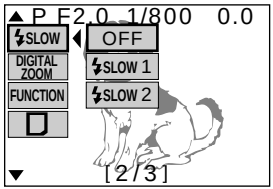
3 **Press △ or ▽ to select "ϟ SLOW 1" or "ϟ SLOW 2" and then press the [OK] button.**

- "ϟ **SLOW**" appears on the control panel.
- When you select "ϟ **SLOW 2**", the built-in flash fires a pre-flash before the main flash.
- You can still take pictures at this point.

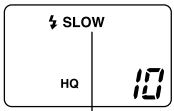
4 **Press the [OK] button.**

- The setting is saved and you exit the menu screen.





Control panel



Slow Synchro mode

MEMO

- When you use the FL-40 external flash, the external flash is controlled by the same setting.

CAUTION

- Because this mode uses slow shutter speeds, a tripod should be used to prevent camera shake.
- This mode can be used for external flash units as well as the built-in flash.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Using external flash

Using the optional FL-40 external flash enables you to take a wide variety of shots using flash.
You can either use the external flash by itself, or use it in conjunction with the camera's built-in flash.
To mount the FL-40 external flash on your Camedia, you should always use the optional special flash bracket FL-BK01 and bracket cable FL-CB01. If you use any other method to mount the FL-40 external flash, you will not be able to access the dedicated functions offered by the FL-40 external flash.

Using the FL-40 external flash

When you use the FL-40 external flash, it automatically detects the camera's flash mode and exposure settings and can be controlled by the camera in the same way as the built-in flash.
Using the built-in and external flash units together allows you to use more sophisticated lighting effects, such as using the external flash for bounce lighting and the built-in flash for catch lighting. The default setting is for the external flash and built-in flash to work together.

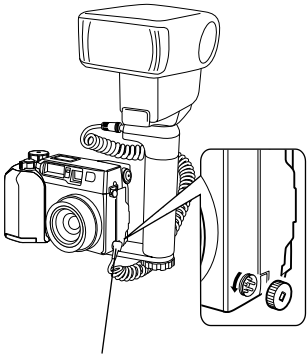
P A/S/M

1 Remove the cap from 5-Pin external flash socket.

- The cap is a screw-on cover. Unscrew the cap to remove it.

2 Mount the FL-40 external flash on the special flash bracket. Then fasten it to the camera's tripod socket and use the dedicated bracket cable to connect the flash bracket to the 5-Pin external flash socket on the camera.

- Refer also to the instructions provided with the dedicated flash bracket and bracket cable.



3 Set the Mode dial to "P" or "A/S/M".

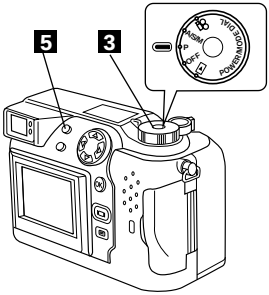
- If you set the Mode dial to "A/S/M", the monitor switches on.

4 Switch the external flash on.

- The external flash mode is set to "TTL-AUTO".

5 Select the camera's flash mode.

- The available flash modes are "Auto-Flash","Red-Eye Reduction Flash", "Forced Flash" and "Flash Off". See P.124 for more information on using the flash.



MEMO

- You can also set the flash mode to Slow Synchro. (P.129)

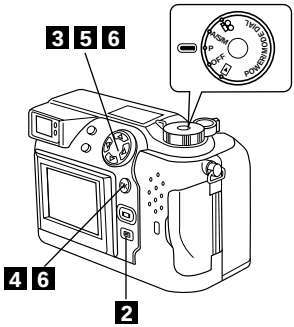
CAUTION

- If you use an external flash for close-up shots, the picture may be overexposed. Use the built-in flash only.
- If you use both the built-in flash and the FL-40, the built-in flash is used only as a supplementary light source. Consequently, if the amount of light from the FL-40 is insufficient, the picture may turn out underexposed.

Using only the FL-40 external flash

You can select whether to use only the external flash or use the built-in flash and external flash together. When you are using the external flash, you can specify that the built-in flash does not fire to avoid depleting the camera's batteries.

P A/S/M

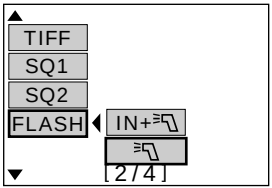


1 **Mount the FL-40 external flash on the dedicated flash bracket. Then fasten it to the camera's tripod socket and use the dedicated bracket cable to connect the flash bracket to the 5-Pin external flash socket on the camera.**

2 **Press the (Menu) button.**
- The menu screen appears.

3 **Use △ or ▽ on the Arrow pad to select "MODE SETUP" and then press ▷ to select "SETUP".**

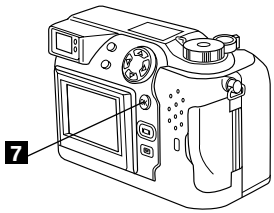
4 **Press the [OK] button.**
- The MODE SETUP screen appears.



5 **Press △ or ▽ to select "FLASH" and then press ▷.**

6 **Press △ or ▽ to select " " and then press the [OK] button.**

7 Press the [OK] button repeatedly until the menu disappears.



CAUTION

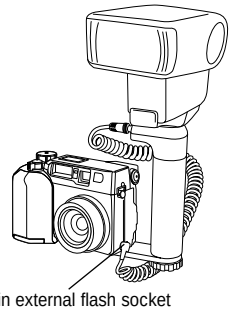
- The selected setting is retained until changed, even when the camera is switched off.
- In some situations, the external flash may misfire.
- Always use the dedicated flash bracket and bracket cable to connect the FL-40 to the camera. If you use any other method, you will not be able to access the dedicated functions offered by the FL-40 external flash.

Using a different external flash

You can also use the optional dedicated flash bracket FL-BK01 and bracket cable FL-CB01 to mount a different external flash on the camera.
For information on the requirements for compatible external flash units, see "Supported third-party flash units" on P.136.

A/S/M

1 Mount the external flash on the dedicated flash bracket. Then fasten it to the camera's tripod socket and use the dedicated bracket cable to connect the flash bracket to the 5-Pin external flash socket on the camera.



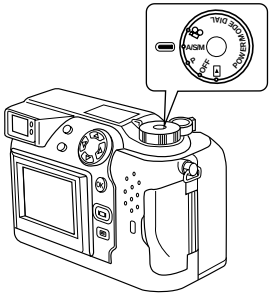
2 Set A/S/M mode to "M" (Manual mode). (P.91)

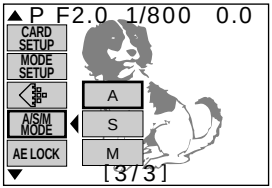
- Set the aperture and shutter speed.
- A slow shutter speed setting could result in camera shake during the shot.

3 Switch the external flash on.

4 Set the external flash mode so that the external flash fires. Then, match the ISO and aperture settings on the external flash to the settings on the camera.

- Refer to the instructions for your external flash unit for information on selecting the external flash mode.





CAUTION

- Different external flash units cannot be used independently of the built-in flash.
- The camera flash modes do not apply to different external flash units. A different external flash will fire even when the camera flash mode is set to Flash Off.
- Before using a different external flash unit, note the following points:
 - Some different external flash units use high-voltage synchro terminals. Depending on the mechanism of the flash, this type of flash unit may not function correctly with the camera. Contact the manufacturer of your flash for information on the synchro terminal specifications.
 - Some different external flash units use synchro terminals with the polarity reversed. Such flash units will not fire when connected to the camera. Contact the manufacturer of your flash for more information.
- Check beforehand that the flash unit you are using is synchronized with the camera.
- Do not use flash units other than the FL-40 that feature additional communications functions, and do not use the accessories provided with such flash units.
 Such equipment, if used, could not only fail to function normally, but may also cause damage to the camera's circuitry.
- It is recommended that you use the Olympus FL-40 external flash with this camera.

Supported different flash units

When selecting an external flash, use products which meet the following basic requirements:

(1) When using the external flash, it must be possible to adjust the exposure on the external flash unit.
To use the external flash in Auto-Flash mode, it must also be possible to match the flash settings to the F stop and ISO settings on the camera.

(2) Even if the auto F stop and ISO settings on the external flash are matched to the camera settings, the correct exposure may still not be obtained in some photography situations. If this occurs, offset the auto F stop or ISO setting on the external flash unit, or calculate the distance and use flash in Manual mode. Note, however, that the auto F stop and ISO settings can only be adjusted by 1 step or more, and exposure compensation is not possible. (The exposure compensation settings on the camera do not apply to external flash photography.)

(3) The flash must cover the field of view for the equivalent of a 40 mm lens or larger lens in 35 mm photography. However, in close-up photography with the lens zoomed out to the wide-angle setting, the bottom of the image may be eclipsed. For the best results, you should use a wide-angle adapter fitted on the flash to give a wider flash coverage.

(4) Use a flash unit with a full-intensity flash duration of 1/200 sec. or less. When units such as ring flashes that have a long flash duration are used, some the light emitted does not contribute to the exposure.

(5) Do not use flash units other than the FL-40 that feature additional communications functions, and do not use the accessories provided with such flash units. Such equipment, if used, could not only fail to function normally, but may also cause damage to the camera's circuitry.

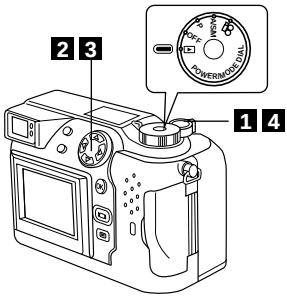
Chapter

6 Displaying, editing and erasing your pictures

- *This chapter describes how to display, edit and erase pictures you have shot.*

Displaying multiple images at one time (Index playback)

By turning the zoom lever towards "W", you can view multiple pictures (4, 9 or 16 at a time) on one screen. This is a convenient way of locating a particular picture among many pictures. See P.139 for information on how to change the number of pictures shown.



1 Turn the zoom lever to "W".

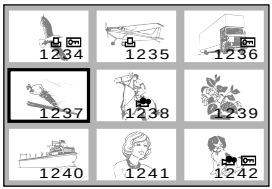
- After 1 second, multiple pictures, including the picture just shown, are displayed on the screen in Index playback mode.

2 You can use ◁ and ▷ on the Arrow pad to move the selection frame around the screen.

◁: Moves the frame left.

▷: Moves the frame right.

3 Pressing △ displays a screen showing the pictures that precede the top-left picture in the current screen. Similarly, pressing ▽ displays a screen showing the pictures that follow the bottom-right picture in the current screen.



4 Turn the zoom lever to "T" to view the currently selected picture in single-frame playback mode.

MEMO

- You can select 4, 9 or 16 as the number of frames displayed per screen. (P.139)

Selecting the number of images displayed concurrently (4, 9 or 16)

By turning the zoom lever towards "W" in playback mode, you can view multiple pictures on one screen. Use the procedure below to specify the number of images (4, 9 or 16) to be displayed per screen.



1 **Press the (Menu) button.**
- The menu screen appears.

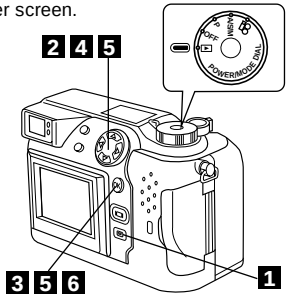
2 **Use △ or ▽ on the Arrow pad to select "MODE SETUP". Then press ▷ to select "SETUP".**

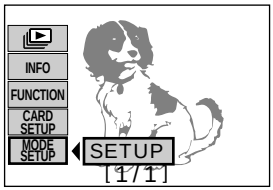
3 **Press the [OK] button to display the MODE SETUP screen.**

4 **Press △ or ▽ to select "" and then press ▷.**

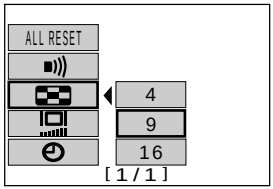
5 **Use △ or ▽ to select "4", "9" or "16" and then press the [OK] button.**

6 **Press the [OK] button repeatedly until the menu disappears.**
- The setting is saved.





(This screen shows the still picture playback menu.)



CAUTION

- If there are no pictures recorded on the SmartMedia card, the menu screen does not appear when you press the (Menu) button.
- The selected setting is retained until changed, even when the camera is switched off.

Enlarging images (Close-up playback)

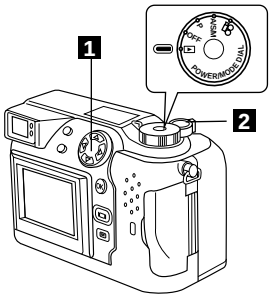
Each time you turn the zoom lever to "T", the image magnification increases one step to 1.5×, 2×, 2.5x and finally 3×.

1 Use the Arrow pad to select the picture to be enlarged.

- Images with the " " icon cannot be enlarged.

2 Turn the zoom lever to "T".

- Each time you turn the zoom lever to "T", the image magnification increases one step to 1.5×, 2×, 2.5× and then 3×.
- Turn the zoom lever to "W" to revert to normal display (1×).





Selecting the enlarged section

Press the Arrow pad (◁ , ▷ , △ and ▽) scrolls around the enlarged image and direction arrows (◀ , ▶ , ▲ and ▼) appear on each edge of the screen.

Selecting another image to enlarge

Turn the zoom lever to "W" to revert to the current image in normal display mode (1x). You can then select the next image to be enlarged.

Displaying images as a slide-show (Automatic playback)

This mode allows you to automatically display successive pictures recorded on a card one after the other in the same way as a slide show.

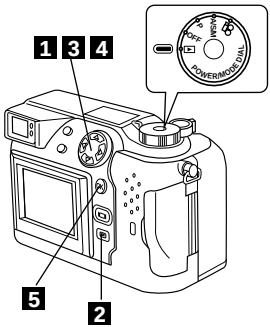
1 **Use the Arrow pad to display a picture.**

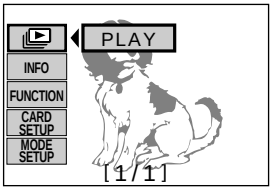
2 **Press the (Menu) button.**
- The menu screen appears.

3 **Use △ or ▽ on the Arrow pad to select " " (Automatic playback).**
- Press the (Menu) button to cancel automatic playback.

4 **Press ▷ to select "PLAY".**

5 **Press the [OK] button.**
- Automatic display begins.
- To stop automatic playback, press the (Menu) button.





CAUTION

- Automatic display starts again at the beginning after it reaches the last image. Press the (Menu) button to stop automatic display.
- If you want to continue automatic playback for an extended period, plug the camera into a domestic AC wall outlet. If you run the camera on batteries, automatic playback automatically ends after 30 minutes.

Preventing unintentional erasing of images (Image protect)

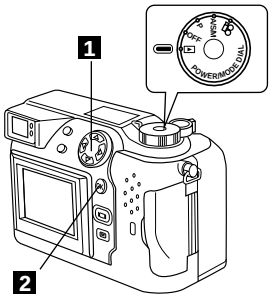
Use the procedure below to protect pictures that you want to keep.

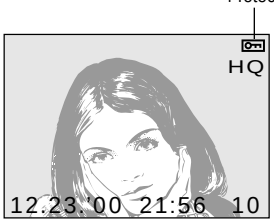
1 **Use the Arrow pad to select the picture you want to protect.**

2 **Pressing the [OK] button assigns protection to the image.**

- The " " appears.
- To remove the protection, press the [OK] button again while the image is displayed. The " " disappears and the protection is cancelled.

* You can also set and remove protection in Index playback mode (P.138) and Close-up playback mode (P.140).





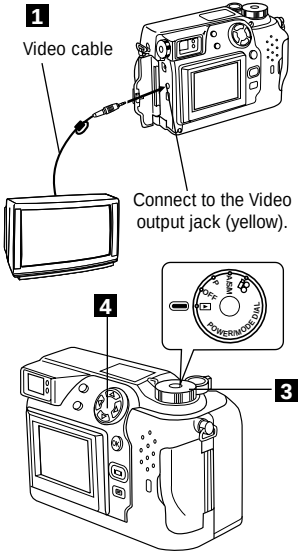
CAUTION

- Protected images are not erased by the all-frame erase function but are erased when you initialize (format) the card. (See "Formatting" on P.154.)
- Protection cannot be set or removed for images on a card protected by a write-protect sticker.
- You cannot set or remove image protection while you are displaying pictures on a TV.
- Protection settings are retained until changed, even when the camera is switched off.

Viewing images on a TV

You can play back the pictures you have recorded on a TV using the video cable supplied with the camera.

Check that the camera and TV are both switched off before you connect the video cable.



1 Plug one end of the Video cable into the video output jack (yellow) on the camera. Then plug the other end into the VIDEO IN (yellow) terminal on the TV.

2 Switch the TV on.

3 Set the Mode dial to "▶".

4 Use the Arrow pad to select the picture you want to display.

- The selected image appears on the TV screen.
- If the camera is connected to a TV, a function is provided that rotates pictures so that images shot when the camera was on its side are easier to see. Each time you press the [OK] button, the image changes one step in the following sequence: "Rotated 90° right", "Rotated 90° left", "Not rotated".

● If you press the [OK] button when the camera is not connected to a TV, the image is protected. (P.142)



Normal display of a picture shot with the camera on its side.

- Movie images cannot be rotated.

[Using the optional remote control]

To use the remote control, ensure that the remote control is pointed at the remote control receiver on the camera. Use the +/- button to select pictures and the W button to play back an index. You can also use the T button to switch to Close-up playback mode and then use +/- button to move the selection area rightward or leftward.

CAUTION

- The monitor is automatically switched off when you connect the camera to a TV.
- On some TVs, the picture may be displayed off-center.
- On some TVs, a black frame may be displayed around the picture. This frame may be very noticeable when the picture is printed on a video printer. Check the completed prints.
- You should use the optional AC adapter as the camera power supply when you are viewing pictures on a TV.

Displaying image information

During picture display, you can also display the photography information for your pictures (camera settings, date and time, file name, etc.) on the monitor. This information is displayed for 5 seconds.

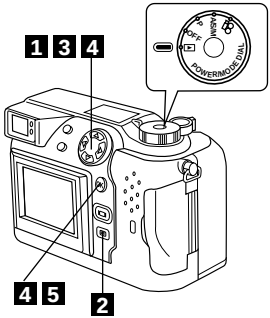
1 **Use the Arrow pad to display a picture.**

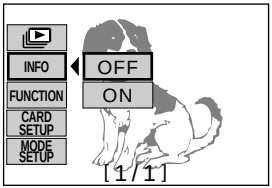
2 **Press the (Menu) button.**
- The menu screen appears.

3 **Use △ or ▽ on the Arrow pad to select "INFO" and then press ▷.**
- To cancel information display, press the (Menu) button.

4 **Use △ or ▽ to select "ON" and then press the [OK] button.**

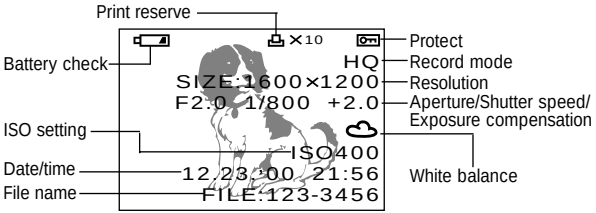
5 **Press the [OK] button.**
- The setting is saved and you exit the menu screen.
- Picture information will be displayed five seconds and then disappear. To display it again, press the (Menu) button twice.



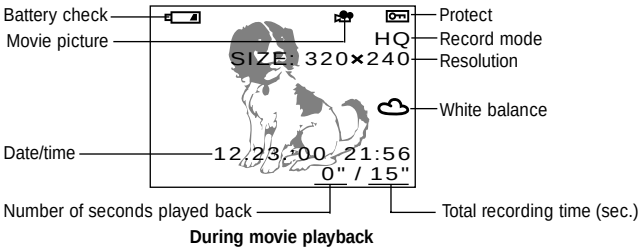


(This screen shows the still picture playback menu.)

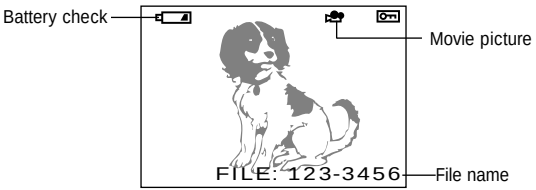
Displaying image information for pictures



Displaying image information for movies



During movie playback



When a picture is selected

CAUTION

- The frame number is not shown while the image information is displayed.
- Unless you select "OFF" in the "ALL RESET" setting (P.173), this setting will be cancelled when you switch the camera off.

Editing recorded movies (FUNCTION)

This section describes how to create an index for movies you have shot and how to edit the images.

Creating an Movie Index

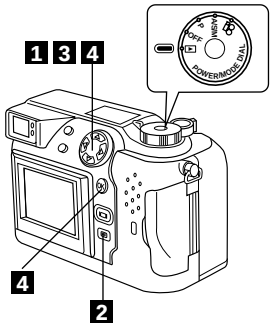
You can create an index that shows you at a glance the content of movies you have shot. The created indexes can then be saved on a SmartMedia card as still images. Created indexes can contain only 9 frames.
Created index images are saved in a different recording mode from that used during shooting.

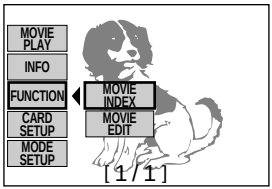
1 **Use the Arrow pad to display an image with the " " icon.**

2 **Press the (Menu) button.**
● The menu screen appears.

3 **Use △ or ▽ on the Arrow pad to select "FUNCTION" and then press ▷.**

4 **Use △ or ▽ to select "MOVIE INDEX" and then press the [OK] button.**



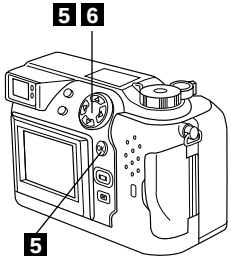


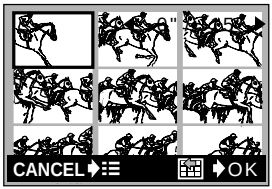
5 **Use ◁ and ▷ to select the first frame for the index display from the movie frames shot. When you have confirmed the selection, press the [OK] button.**

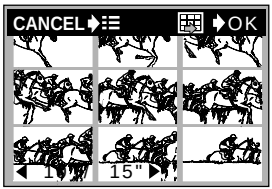
- Pressing △ on the Arrow pad displays the first frame and pressing ▽ displays the last frame. When you select the first frame, the display of the other frames changes, except for the last frame.
- The total movie time and the time for the last frame selected are displayed in the bottom-left corner.
 ▷: Advances the movie.
 ◁: Reverses the movie.
 The movie can only be advanced as far as the frames required for index display.

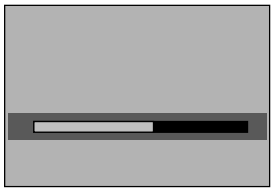
6 **Use ◁ and ▷ to select the last frame for the index display from the movie frames shot.**

- As when you selected the first frame, you can use the Arrow pad to select images. When you select the last frame, the display of the other frames changes, except for the first frame.
- Pressing the (Menu) button returns you to the step for selecting the first frame.

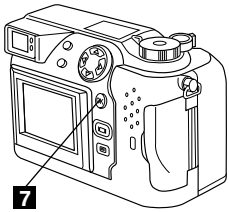








7 **Press the [OK] button to record the created index images on the card and exit Menu mode.**
The recording modes for created index images are as follows:
HQ →SQ1
(1024 × 768, high quality)
SQ →SQ2
(640 × 480, high quality)



CAUTION

- Created indexes can contain only 9 frames.
- Indexes cannot be created on the following types of card:
 - Protected cards
 - Cards for which a warning is displayed indicating that there is insufficient free space when a shooting mode is selected.

Editing movies

Use the procedure below to delete unwanted portions from your recorded movies, edit movies and record them as new movies.

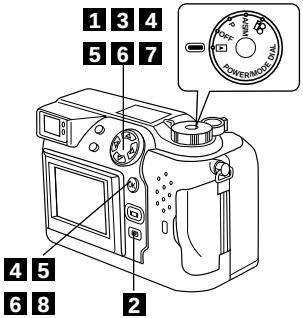


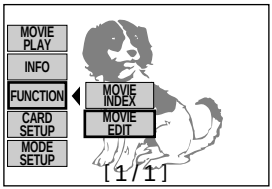
1 **Use the Arrow pad to display an image with the " " icon.**

2 **Press the (Menu) button.**
- The menu screen appears.

3 **Use △ or ▽ on the Arrow pad to select "FUNCTION" and then press ▷.**

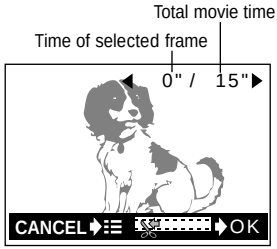
4 **Use △ or ▽ to select "MOVIE EDIT" and then press the [OK] button.**





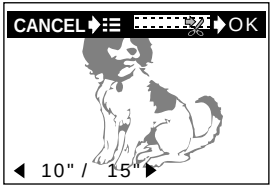
5 **Use ◁ and ▷ to display the first frame. When you have checked the displayed image, press the [OK] button.**

- Pressing △ on the Arrow pad displays the first frame in the movie and pressing ▽ displays the last frame.



6 **Use ◁ and ▷ to display the last frame. When you have checked the displayed image, press the [OK] button.**

- As when you selected the first frame, you can use △ and ▽ on the Arrow pad button to select images.



7 **Use △ or ▽ to select "NEW" or "ERASE".**

- "NEW" saves the edited image as a new picture with a different name.
- "ERASE" saves the edited image under its original name. The original image is discarded.



8 **Press the [OK] button.**

- The image is recorded and you exit Menu mode.

CAUTION

- The "NEW" option cannot be used when a warning has been displayed in a shooting mode indicating that the card is full.
- Protected images cannot be overwritten.
- You cannot edit movies recorded on protected cards.

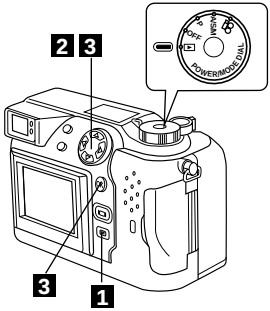
Erasing all images (All-frame erase)

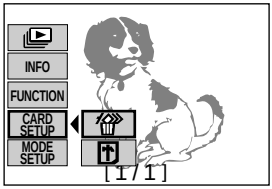
You cannot use this function to erase protected images or images stored on cards protected by a write-protect sticker. To erase these images, remove the protection or peel off the write-protect sticker. (Do not re-use write-protect stickers.)

1 **Press the (Menu) button.**
- The menu screen appears.

2 **Use △ or ▽ on the Arrow pad to select "CARD SETUP" and then press ▷.**

3 **Press △ or ▽ to select "" and then press the [OK] button.**
- A confirmation screen appears.





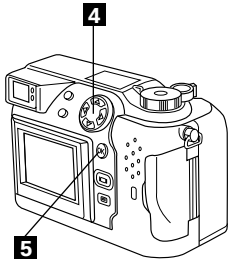
(This screen shows the still picture playback menu.)

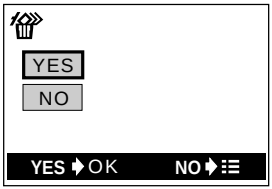
4 **Press △ or ▽ to select "YES".**

- To cancel image erasing, select "NO" and press the [OK] button.

5 **When you press the [OK] button, all the images on the card are erased and the "NO PICTURE" message is displayed.**

- Protected images (P.142) are not erased. If the card includes protected images, the last protected image is displayed when erasing ends.





CAUTION

- The time required for erasing varies depending on the number of images recorded.
- Take care not to mistakenly erase important data.
- Take particular care not to open the card cover, eject the card, remove the batteries or unplug the AC adapter while images are being erased as this could destroy data on the card.

Initializing cards (Formatting)

Initializing a card changes formatting of the card format so that the equipment you are using can store data on that card. The use of Olympus pre-formatted cards is recommended. Different cards or cards that have been formatted on a computer or other device must be initialized on your camera before you can use them.

P A/S/M

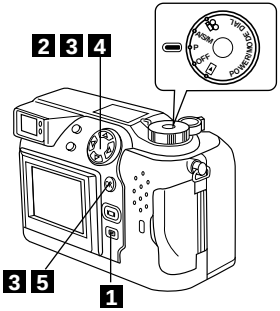
1 Press the (Menu) button.
- The menu screen appears.

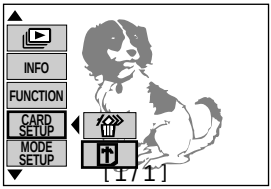
2 Use △ or ▽ on the Arrow pad to select "CARD SETUP" and them press ▷.

3 Press △ or ▽ to select "" and then press the [OK] button.
- A confirmation screen appears.

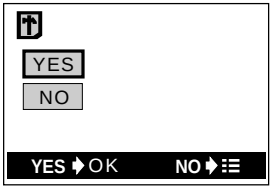
4 Press △ or ▽ to select "YES".
- To cancel card initialization, select "NO".

5 When you press the [OK] button, card initialization begins.
- If the camera is in a shooting mode, it automatically exits Menu mode when initialization ends.
- If the camera is in playback mode, the "NO PICTURE" message appears.





(This screen shows the still picture playback menu.)



CAUTION

- You should check the images on the card carefully before initializing the card.
- Initialization erases all the data on the card, including protected images. When you initialize a card you have already used, check that you do not erase any important data.
- If you use a non-Olympus brand commercially available card or card that has been formatted on a personal computer or other device, it may not be recognized by the camera. In this case, the card should be initialized (formatted) on the camera before use.
- You cannot initialize a card that is protected by a write-protect sticker.

Chapter

7 Print settings

- *Follow the instructions in this chapter to print out recorded images.*
- *The camera also allows you to specify print orders so that your pictures can be printed automatically by stores that provide DPOF (Digital Print Order Format) system print services.*

Printing methods

You can print out pictures you have taken and stored on a card.
There are three ways to obtain prints of the pictures you have taken and stored on a card:

1. Store the date, time and number of copies to be printed for the image stored on the card (card print order).
By inserting a card containing card print orders into a printer that supports the DPOF system, the specified pictures will automatically be printed. There is no need to specify the print settings on the printer.
Similarly, you can take a card containing card print orders to any commercial print service that offers the DPOF print system, and your pictures will be automatically printed with no need for further print instructions.

2. If you insert a card containing card print orders into the card slot of an Olympus CAMEDIA P-400/P-200/P-330N printer, you can print your pictures simply at the touch of a button.
- For more information, refer to the user manual for your printer.

3. You can also transfer your pictures directly to a personal computer.
You can do this by using the camera's USB functions, or by using a FlashPath or card adapter.
Once you have downloaded your pictures to a computer, you can then use image printing software on the computer to print your pictures on a printer connected to the computer.
- For more information, refer to the user manuals for the respective software programs.

DPOF
DPOF (Digital Print Order Format) is a format used by digital cameras for recording automatic printing information.
The DPOF system allows you to record information specifying which images are to be printed and how many copies of each. This information is recorded on the card used to store the pictures and allows the specified pictures to be automatically printed by a printer or photo lab that supports the DPOF system.

CAUTION

- You cannot use this camera to change DPOF order details specified using another device. Use the original device to modify the orders.
- If a card contains files with DPOF orders set on another device, using this camera to specify new orders may erase the previous orders.
- Even if the "PICTURE ERROR" message is displayed for a picture, it may still be possible to specify print orders for the picture. In such cases, the print reserve () does not appear on the screen when the image is displayed in single-frame playback mode. However, you can check the print orders in Index playback mode, since the icon is displayed on the screen when multiple images are displayed in index-display mode.
- You cannot connect the camera directly to printers that support direct printing, such as the Olympus P-300U digital printer, to print images.
- Some functions may not be available on all printers or at all photo labs.

Printing all the images on a card (All print order)

Use the procedure below to record an instruction that prints all the pictures stored on a card. You can use this print order to have the specified number of copies of all the pictures automatically printed by a printer or photo lab that supports the DPOF system.



1 Use the Arrow pad to display any still picture.

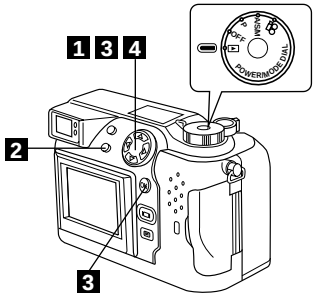
2 Press the Print button.

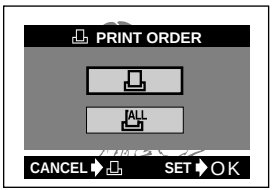
- The print order selection screen appears.
- If print orders have already been set for any of the pictures on the current card, a screen appears that allows you to select whether to keep the previous orders or reset (erase) them. (P.167)

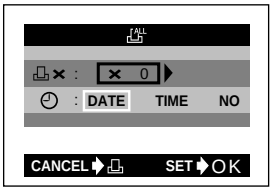
3 Use △ or ▽ on the Arrow pad to select "ALL" and then press the [OK] button.

- The screen appears for setting the number of copies and selecting whether to print the image information.

4 Press △ or ▽ to select "X".







5 **Press ◁ or ▷ to set the number of copies.**

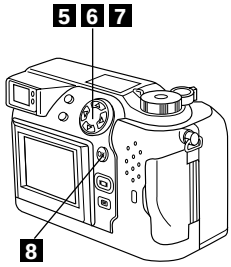
- Press ◁ to reduce the number of copies or ▷ to increase the number.
- You can set any number from 0 to 10 as the number of copies.

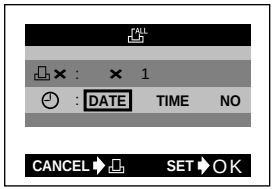
6 **Press △ or ▽ to select "🕘".**

7 **Press ◁ or ▷ to select "DATE", "TIME" or "NO".**

8 **When you have completed the settings, press the [OK] button.**

- The Menu screen is replaced by the picture display screen.
- The print reserve and the number of copies are displayed on the screen.





If the print reserve (🖶) does not appear:

- Print orders can be set for protected images.
- Print orders cannot be set for cards protected by a write-protect sticker.
- Print orders cannot be set for images marked with the "🎞" icon.

CAUTION

- The DPOF settings are saved on the card until changed, even when the camera is switched off.
- If you print on the P-330N, orders for only the first 999 images recorded on the card can be printed.
- Print order setting may take some time.

Printing only selected images (Single print order)

Use the procedure below to record an instruction that prints only selected pictures stored on a card. You can use this print order to have the specified number of copies of the selected pictures automatically printed by a printer or photo lab that supports the DPOF system.



1 Use the Arrow pad to display any still picture.

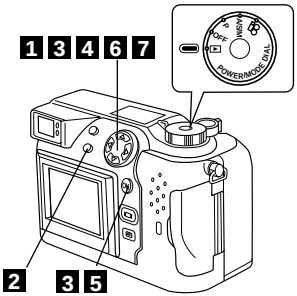
- You cannot set print orders for images marked with the "🎞" icon.

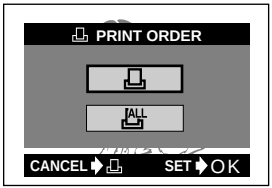
2 Press the 🖨 (Print) button.

- The card print order selection screen appears.
- If print orders have already been set for any of the pictures on the current card, a screen appears that allows you to select whether to keep the previous orders or reset (erase) them. (P.167)

3 Use △ or ▽ on the Arrow pad to select "🖨" and then press the [OK] button.

- The print order image selection screen appears.
- You can specify trimmed printing by turning the zoom lever to "T". (P.165)





4 Use the Arrow pad to display the image for which you want to set the print order.

◁ : Displays the previous picture.
▷ : Displays the next picture.
△ : Jumps back 10 pictures.
▽ : Jumps forward 10 pictures.

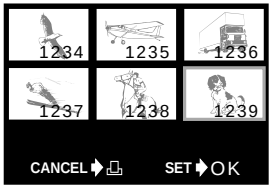
- You can select index display mode by turning the zoom lever to "W".

◁ : Moves to the previous frame.
▷ : Moves to the next frame.
△ : Displays the previous index page.
▽ : Displays the next index page.

- In index display mode, the number of frames displayed depends on the frame number setting (P.138). Two frames are shown for a frame number setting of 4, 6 frames are shown for a setting of 9, and 12 frames are shown for a setting of 16.

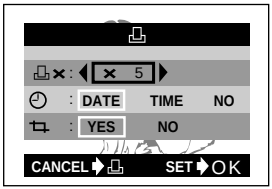
Print order selection screen





5 Press the [OK] button.

- The single print order setting menu appears.



6 Press △ or ▽ to select "🖨X".

7 Press ◁ or ▷ to set the number of copies.

- Press ◁ to reduce the number of copies or ▷ to increase the number.
- You can set any number from 0 to 10 as the number of copies.
- If a number of copies has already been specified for the selected image, that number of copies appears on the settings screen.

8 **Press △ or ▽ to select "◴ ".**

9 **Press ◁ or ▷ to select "DATE" or "TIME" or "NO".**

10 **Press △ or ▽ to select "⌗ ".**

11 **Press ◁ or ▷ to select "YES" or "NO".**

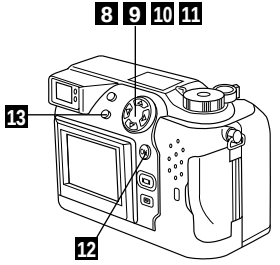
- When trimming is not specified, you cannot select "YES".
- See "Printing some images enlarged (trimmed print order)" (P.165) for information on specifying trimming.

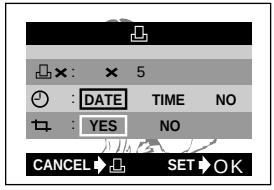
12 **When you have completed the settings, press the [OK] button.**

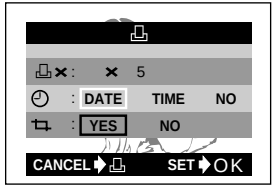
- The Menu screen is replaced by the picture display screen.
- The print reserve and the number of copies are displayed on the screen.
- To set print orders for other pictures, repeat steps 4 to 12.

13 **Press the 🖶 (Print) button.**

- You exit Print Order mode and return to Display mode.







CAUTION

- The DPOF settings are saved on the card until changed, even when the camera is switched off.
- If you print on the P-330N, orders for only the first 999 images recorded on the card can be printed.
- Print order setting may take some time.

Printing some images enlarged (Trimmed print order)

This function allows you to enlarge and print a portion of a picture.



1 **In the card order screen, select single print ordering and press the [OK] button. (P.162)**

- The print order image selection screen appears.

2 **Use the Arrow pad to display the picture for which you want to set the print order.**

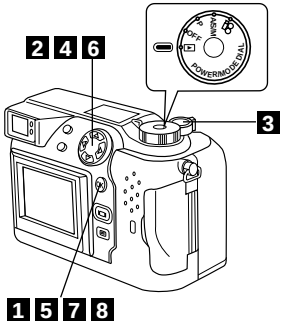
- ◁ : Displays the previous picture.
- ▷ : Displays the next picture.
- △ : Jumps back 10 pictures.
- ▽ : Jumps forward 10 pictures.

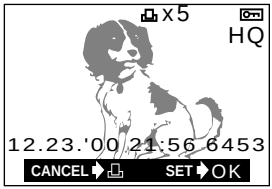
3 **Turn the zoom lever to "T".**

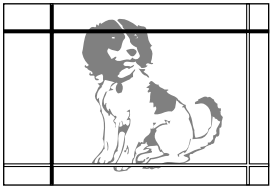
- The trimming mode screen appears and the selected cursor is displayed in green.

4 **Move the cursor to set the top left corner of the image you want to print.**

- Use △ and ▽ on the Arrow pad to move the cursor up and down, and ◁ and ▷ to move the cursor left and right.
- Turning the zoom lever to "W" moves the cursor towards the top left corner. Turning the zoom lever to "T" moves the cursor towards the bottom right corner.





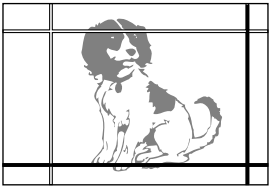


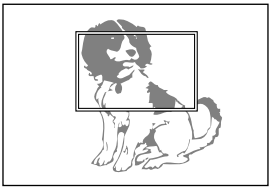
Trimming mode screen

5 **When you have set the cursor position, press the [OK] button.**

6 Move the cursor to set the bottom right corner of the image you want to print.

- Using the same procedure as for the top left corner, set the bottom right cursor position.
- Use △ and ▽ on the Arrow pad to move the cursor up and down, and ◁ and ▷ to move the cursor left and right.
- Turning the zoom lever to "W" moves the cursor towards the top-left corner. Turning the zoom lever to "T" moves the cursor towards the bottom-right corner.
- If you want to reposition the top left corner, press the 🖶 (Print) button.



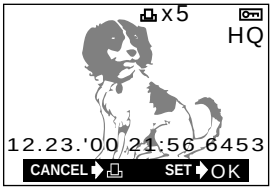


(Displayed for 1 second)

7 Press the [OK] button to set the size of the trimmed image and display the image on the monitor.

8 Press the [OK] button.

- The single print order screen appears.
- Use the single print order procedure to select "🖶X", "🕘" or "⌗". (P.162)
- To specify trimmed print orders for other images, repeat steps 1 to 8.



(When you specify the setting, the framed picture is displayed for 1 second and the screen then switches back to the print order setting screen.)

MEMO

- The size of the printed image varies depending on the printer settings. Images trimmed down to a small size have lower resolution.

CAUTION

- For the best results with close-up prints, you should take the picture in TIFF, SHQ or HQ quality mode.
- You can use the Arrow pad to change the aspect ratio of the trimming screen, but the aspect ratio remains fixed at 4:3 when you use the zoom lever.

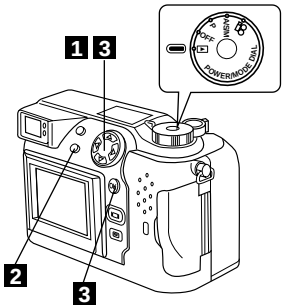
Resetting print reserve

Use the procedure below to cancel all the print order settings for images stored on a card.

1 Use the Arrow pad to display any still picture.

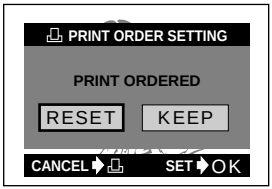
2 Press the 🖶 (Print) button.

- The card print order status confirmation screen is displayed.
- If no print orders have been set for the pictures on the current card, the print order setting cancellation screen is not displayed.



3 Press ◁ or ▷ on the Arrow pad to select "RESET" and then press the [OK] button.

- To halt the cancellation procedure, select "KEEP" and press the [OK] button.
- To cancel the print order for just the selected image, select "KEEP" and press the [OK] button. Then change the number of copies setting in the single print order screen to "0" (zero).



CAUTION

- When you select "RESET", the print order settings for all the pictures on the card are cancelled.

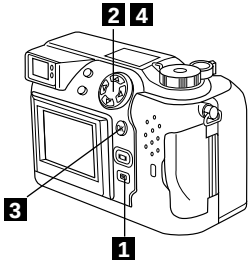
Chapter

8 Mode setup

- *The mode setup options are accessed from the respective menu screens. The options available in the Still picture shooting menu, Movie record menu and Playback menu are different.*

MODE SETUP - Using function settings for easy camera operation

To make the camera even easier to use, you can use the mode setup option to customize various camera functions. The functions you can customize include basic camera operations such as adjusting the monitor brightness, selecting the units of length displayed in the screens, and selecting the camera's operating beep tones.

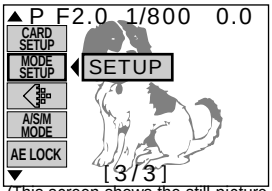


1 Press the (Menu) button.
- The Menu screen appears.

2 Press △ or ▽ on the arrow pad to select "MODE SETUP" and then press ▷ to select "SETUP".

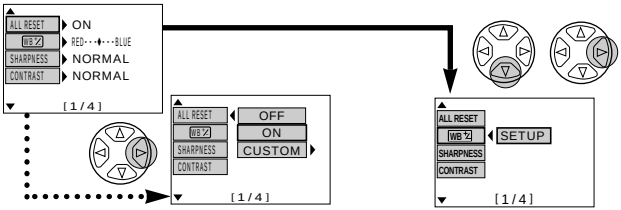
3 Press the [OK] button.
- The MODE SETUP screen appears.

4 Press △ or ▽ to select the desired setting and then press ▷.
- Either the current setting or "SETUP" will appear on the screen. Use the appropriate procedure for the setting you want to customize.
- You cannot take pictures while the MODE SETUP screen is displayed.



(This screen shows the still picture shooting menu.)

This screen shows the still shooting MODE SETUP menu.



Example: When "ALL RESET" is selected

Example: When " WB " is selected

CAUTION

- Always return to the Menu screen from the MODE SETUP screen by pressing the [OK] button. If you use the (Menu) button to return to the Menu screen, the settings are not saved.

List of mode settings

Displayed mode* P	🎥	▶	Setting	Function	Default setting	See
O	O	O	ALL RESET	Determines the camera status when you switch the camera on.	ON	P.173
O	O		WB ½	Makes fine adjustments to the white balance.	RED···♦···BLUE	P.109
O	O		SHARPNESS	Sets the image clarity.	NORMAL	P.177
O	O		CONTRAST	Sets the image contrast.	NORMAL	P.178
O			TIFF	Sets the quality for the TIFF quality mode.	1600 × 1200	P.179
O			SQ1	Sets the quality for the SQ1 quality mode.	1024 × 768 NORMAL	P.180
O			SQ2	Sets the quality for the SQ2 quality mode.	640 × 480 NORMAL	P.180
O			FLASH	Sets the flash firing settings when an external flash is mounted on the camera.	**IN+**	P.133
O	O	O		Sets the volume of the tones emitted during camera operation.	LOW	P.182
O			AF MODE	Sets the system used for focusing in Autofocus mode.	NORMAL	P.81
O			FULL-TIME AF	Allows you to specify that the camera repeatedly focuses without the shutter button being pressed down halfway.	OFF	P.79

* "P" (A/S/M is the same as "P") denotes Still picture shooting mode, "🎥" denotes Movie record mode, and "▶" denotes Picture playback mode or Movie playback mode. "O" indicates that the setting is displayed in that mode.

Displayed mode* P	Displayed mode* 🎥	Displayed mode* ▶	Setting	Function	Default setting	See
O	O		REC VIEW	Specifies whether the recorded image is displayed after the picture is taken and whether the screen for saving or discarding the image appears.	ON	P.183
O	O		FILE NAME	Sets the recording method used for file names recorded on the SmartMedia card.	RESET	P.189
O	O	O		Sets the monitor brightness.	–···♦···+	P.191
O	O	O		Sets the date and time.	–	P.38
O	O		m/ft	Specifies the unit of length used for setting the focal distance (p. 84).	ft	P.192
		O		Sets the number of frames per screen in Index playback mode.	9	P.138

* "P" (A/S/M is the same as "P") denotes Still picture shooting mode, "🎥" denotes Movie record mode, and "▶" denotes Picture playback mode or Movie playback mode. "O" indicates that the setting is displayed in that mode.

Restoring the original settings when the camera is switched off (ALL RESET)

This setting allows you to select the camera settings that will be valid the next time you switch the camera on. If you select "ON", all the settings shown on P.174 will revert to their default values. If you select "OFF",0 the settings that are valid just before you switch the camera off are saved. You can also use the CUSTOM setting to customize the camera settings. (P.175)

P A/S/M

1 Display the MODE SETUP screen.

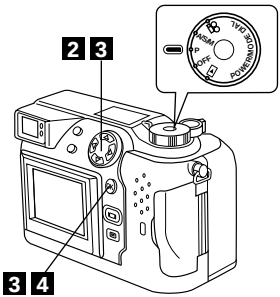
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

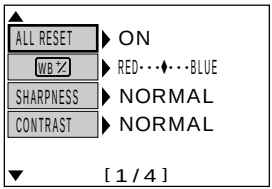
2 Use △ or ▽ on the Arrow pad to select "ALL RESET" and then press ▷.

3 Press △ or ▽ to select "OFF" or "ON" and then press the [OK] button.

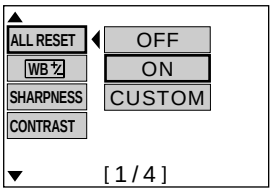
- If you select "ON", the camera settings revert to their default values when you switch the camera off.
- If you select "OFF", the camera settings are retained when you switch the camera off.

4 Press the [OK] button repeatedly until the menu disappears.





(This screen shows the still picture shooting menu.)



The table below lists the settings that revert to their default values when you select "ON" and switch the camera off, along with the default settings.

Setting	Default setting	See
FLASH	AUTO	P.124
/ (Macro/Metering mode)	OFF	P.84,95
ZOOM	40 mm	P.72
FNo (Aperture setting)	F1.8	P.89, 91
Shutter speed setting	1/800	P.90, 91
(Exposure compensation)	±0	P.92
AF/MF (Focus mode)	AF	P.82
LCD(P) (Monitor display)	OFF	P.63
DRIVE		P.93,113,115
WB (White balance)	AUTO	P.105, 107
ISO	AUTO	P.103
(Flash intensity control)	±0	P.127
SLOW (Slow Syncro)	OFF	P.129
DIGITAL ZOOM	OFF	P.85
Function mode	OFF	P.118
STILL (Still image quality mode)	HQ	P.111
A/S/M/MODE	A	P.88
AE LOCK	OFF	P.98
MOVIE (Movie image quality mode)	HQ	P.111
INFO	OFF	P.145

CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Selecting the settings when the camera is switched on (Custom settings)

You can use this function to ensure that the camera settings revert to your preferred values when the camera is switched off. If you change the camera settings while you are taking pictures, those changes are discarded and the settings specified here are restored next time you switch the camera on.

P A/S/M

1 Display the MODE SETUP screen.

- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

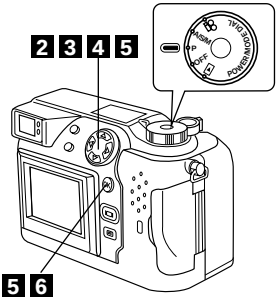
2 Use △ or ▽ to select "ALL RESET" and then press ▷.

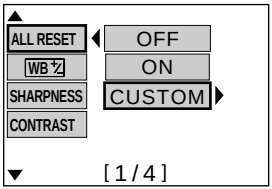
3 Press △ or ▽ to select "CUSTOM" and then press ▷.

- The CUSTOM settings screen appears.

4 Press △ or ▽ to select the mode you want to set and then press ▷.

- The table on the next page shows details of the mode in which settings can be selected.





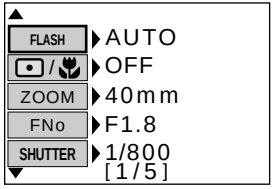
(This screen shows the still picture shooting menu.)

CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

5 **Press △ or ▽ to select the desired settings or mode and then press the [OK] button.**

- To change the settings for other modes, repeat steps 4 and 5.



6 **Press the [OK] button repeatedly until the menu disappears.**

- If you set "ALL RESET" to a setting other than "CUSTOM", the settings specified in "CUSTOM" mode are saved.

Settings that can be customized in "CUSTOM" mode

FLASH	"AUTO", " ", " ", " "
/	"OFF", " ", " ", " + "
ZOOM	"40mm", "65mm", "90mm", "120mm"
FNo	"F1.8" to "F10"
SHUTTER	"1/800" to "16"
	To ±2 EV in 1/3 EV increments
MF	"AF", "MF"
LCD(P)	"OFF", "ON"
DRIVE	" ", " ", "**AF** ", " ", "BKT"
WB	"AUTO", " ", " ", " ", " ", " "
ISO	"AUTO", "100", "200", "400"
	To ±2 EV in 1/3 EV increments
SLOW	"OFF", " **SLOW 1**", " **SLOW 2**"
DIGITAL ZOOM	"OFF", "ON"
FUNCTION	"OFF", "BLACK&WHITE", "WHITE BOARD", BLACK BOARD"
STILL	"TIFF", "SHQ", "HQ", "SQ1", "SQ2"
A/S/M MODE	"A", "S", "M"
AE LOCK	"OFF", "SINGLE", "MULTI"
MOVIE	"HQ", "SQ"
INFO	"OFF", "ON"

Setting the image clarity (Sharpness)

Use the procedure below to set the image sharpness. The "NORMAL" setting gives sharp edges in the image and is useful for showing detail in prints, etc. The "SOFT" setting gives softer outlines and is best used for images intended for image processing. The "HARD" setting further enhances the image outlines to give a bolder image. Select the appropriate setting for your purposes.

P A/S/M

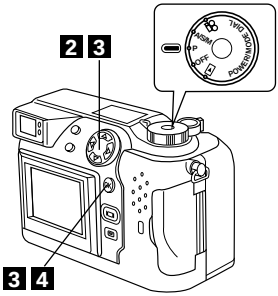
1 Display the MODE SETUP screen.

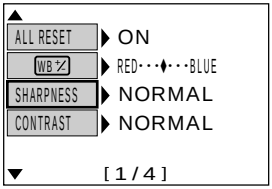
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

2 Use △ or ▽ on the Arrow pad to select "SHARPNESS" and then press ▷.

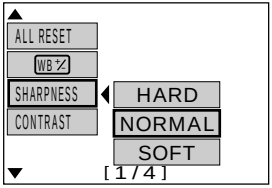
3 Press △ or ▽ to select "NORMAL", "SOFT" or "HARD" and then press the [OK] button.

4 Press the [OK] button repeatedly until the menu disappears.





(This screen shows the still photography menu.)



CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Setting the image contrast (Contrast)

Use the procedure below to set the image contrast. Select "HIGH" for a high degree of contrast between light and dark or "LOW" to lessen the contrast.

P A/S/M

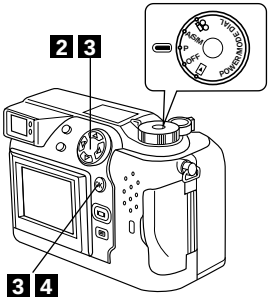
1 Display the MODE SETUP screen.

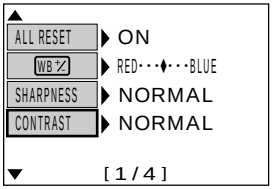
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

2 Use △ or ▽ on the Arrow pad to select "CONTRAST" and then press ▷.

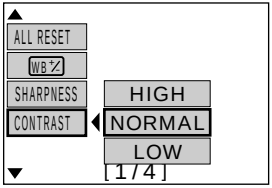
3 Press △ or ▽ to select "NORMAL", "HIGH" or "LOW" and then press the [OK] button.

4 Press the [OK] button repeatedly until the menu disappears.





(This screen shows the still picture shooting menu.)



CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Setting the resolution for TIFF mode (TIFF Settings)

Use the procedure below to set the resolution for pictures recorded in TIFF quality mode. Higher resolutions give better results for pictures that you intend to print or display enlarged. The setting selected here is used when you take pictures in TIFF quality mode.

P A/S/M

1 Display the MODE SETUP screen.

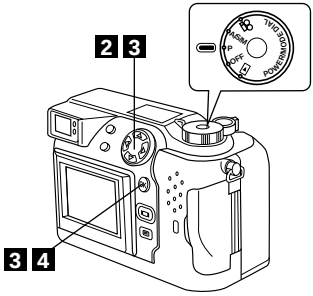
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

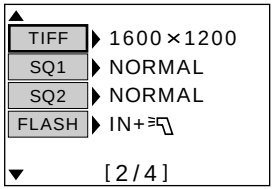
2 Use △ or ▽ on the Arrow pad to select "TIFF" and then press ▷.

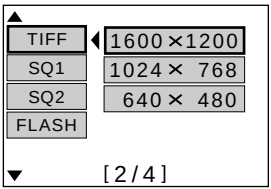
3 Press △ or ▽ to select the resolution and then press the [OK] button.

- The available resolution settings are "1600 x 1200", "1024 x 768" and "640 x 480".

4 Press the [OK] button repeatedly until the menu disappears.







CAUTION

- The selected setting is retained until changed, even when the camera is switched off.
- Note that selecting a high resolution for recorded images increases the time required to display the images and reduces the number of storable pictures. (P.56)

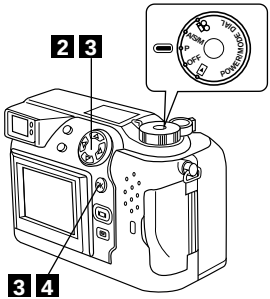
Setting the quality for SQ mode (SQ1/SQ2 Settings)

Use the procedure below to set the resolution and quality for pictures recorded in SQ1 or SQ2 quality mode. Selecting "NORMAL" allows you to save more pictures on a card. Selecting "HIGH" lessens the graininess characteristic of compressed JPEG images.

P A/S/M

1 Display the MODE SETUP screen.

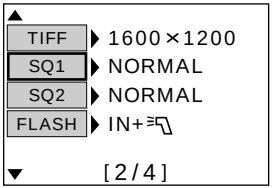
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)



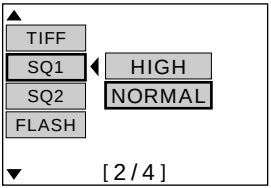
2 Use △ or ▽ on the Arrow pad to select "SQ1" or "SQ2" and then press ▷.

3 Press △ or ▽ to select "HIGH" or "NORMAL" and then press the [OK] button.

- The table on the next page lists the available resolution settings.



4 Press the [OK] button repeatedly until the menu disappears.



Recording modes (available settings)

Quality		Resolution	File format
SQ1	HIGH	1024 x 768	JPEG
	NORMAL		
SQ2	HIGH	640 x 480	
	NORMAL		

CAUTION

- The selected setting is retained until changed, even when the camera is switched off.
- Note that selecting a high resolution for recorded images increases the time required to display the images and reduces the number of storable pictures. (P.56)

Changing the camera's warning tone volume (Beep)

Use the procedure below to set the volume of the beeps used by the camera as audible warnings and to specify whether or not warnings are sounded.

P A/S/M

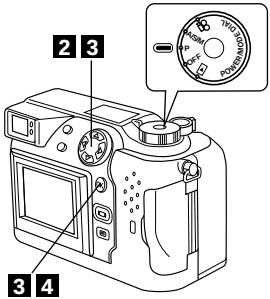
1 Display the MODE SETUP screen.

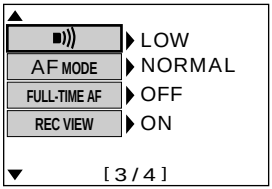
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

2 Use △ or ▽ on the Arrow pad to select "🔊" and then press ▷.

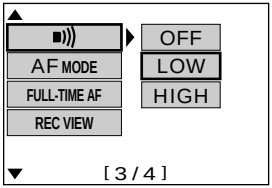
3 Press △ or ▽ to select "OFF", "LOW" or "HIGH" and then press the [OK] button.

4 Press the [OK] button repeatedly until the menu disappears.





(This screen shows the still picture shooting menu.)



CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Displaying images during image recording (REC VIEW)

This setting allows you to specify whether the picture you have just taken is displayed while it is being recorded on the SmartMedia card.

P A/S/M

1 Display the MODE SETUP screen.

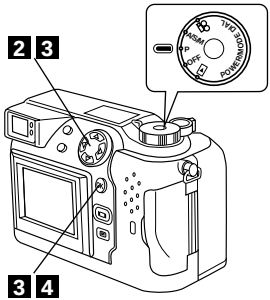
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

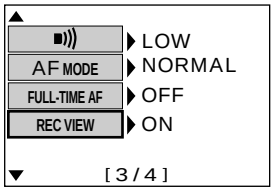
2 Use △ or ▽ on the Arrow pad to select "REC VIEW" and then press ▷.

3 Press △ or ▽ to select select "ON", "OFF" or "CHECK" and then press the [OK] button.

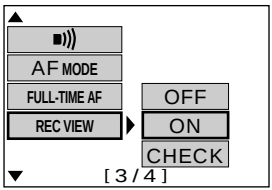
- If you select "OFF", the picture is not displayed on the monitor during recording.
- If you select "ON", the picture is displayed on the monitor during recording.
- If you select "CHECK", the picture is displayed on the monitor immediately and a selection confirmation screen appears asking whether you want to save the image to the card or erase the image. (P.184)

4 Press the [OK] button repeatedly until the menu disappears.





(This screen shows the stillpicture shooting menu.)



CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Saving/erasing images right after shooting (CHECK)

This feature displays the picture you have just taken before it is saved to the card and allows you to select whether to save the image or erase it. To access this option, select "CHECK" in the "REC VIEW" setting. (P.183)

When you select CHECK

After you take a picture, use the procedure below to select whether to save or erase the image.

P A/S/M

1 If you selected "CHECK", a confirmation screen appears after you take each shot in which you can select whether to save or erase the picture.



CHECK confirmation screen in Still picture shooting mode

- In "🎥" mode, pressing the (Menu) button plays the movie so you can check the content.
- If there are multiple images in buffer memory, you can use the Arrow pad to select images, the zoom lever to enlarge images, and index display mode to select images.



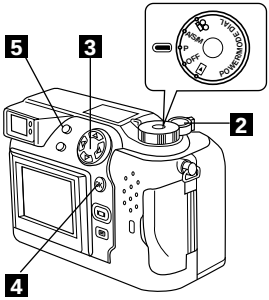
CHECK confirmation screen in Movie record mode

◁ : Displays the previous picture.
▷ : Displays the next picture.
△ : Displays the first frame
▽ : Displays the last frame.

- The CHECK option is not available in TIFF mode.
- If the buffer memory contains pictures shot using Auto Bracket, the darkest image is displayed first. Pressing the ◁ button displays the next darkest image.

2 Turn the zoom lever to "T" to enlarge the picture or to "W" to switch to Index display mode.

- Index display mode allows you select from a screen showing multiple images.
- The index mode display procedure using the CHECK setting for shots taken using Auto Bracket is different from that used for shots taken normally. (P.187)



3 In Index Display mode, use the Arrow pad to select a picture.

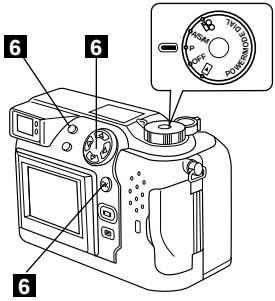
4 To save the picture, press the [OK] button.
The picture shown on the screen is recorded onto the card.
If there is another image in the buffer memory, that image is displayed next.

5 To discard the image, press the 🗑 (Erase) button. The one-frame erase screen appears.



6 If you use △ or ▽ to select "YES" and press the [OK] button, the displayed image is erased and the next image appears. To cancel erasing, press the 🗑 (Erase) button or select "NO" and press the [OK] button. The CHECK confirmation screen then reappears.

- If you switch the camera off while an image is still displayed on the CHECK screen image, the image is automatically saved.



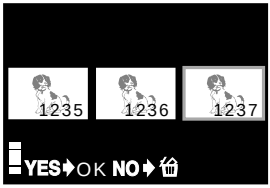
CAUTION

- In Movie record mode or when you are using Auto Bracket to take shots, you cannot take further pictures until you decide whether to save or erase the current picture.
- If you select the CHECK option when TIFF quality mode is set, the quality mode changes. Do not use the CHECK setting in TIFF mode. (Switch to a high-quality mode with the same resolution.)
- You can still take pictures while you are using the CHECK option to check shots. If you press the shutter button down halfway, the display on the monitor changes and an image appears with focus lock applied. The CHECK confirmation screen reappears 5 seconds after you switch to the photography screen.
- While you are using the CHECK option to check shots, you can switch between the "P" and "A/S/M" modes. If you switch between these ("P", "A/S/M") modes and "🎞", all the pictures currently stored in the buffer memory are automatically saved.
- If you take a picture while you are using the CHECK option, you cannot select the following settings in the photography menu: "DRIVE", "□", "CARD SETUP", and "MODE SETUP".
- Never remove the card or replace the batteries while you are using the CHECK option as the data in the buffer memory will be lost.
- The menu screens cannot be displayed while you are using the CHECK option. Exit the CHECK screen before using the menus.
- The selected setting is retained until changed, even when the camera is switched off.

When you use Auto Bracket

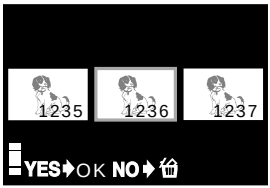
If you use Auto Bracket to take a picture, the index display changes depending on whether the buffer memory contains any images shot in normal shooting mode.

- If Auto Bracket is used, the displayed index includes all the images shot.



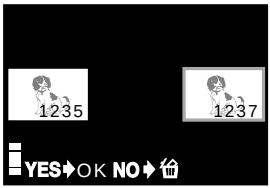
Index display (for Auto Bracket)

- Use the Arrow pad to select an image and press the [OK] button to save it.
 To erase the image, press the 🗑 (Erase) button and repeat step **6** on the previous page. The erased image disappears from the screen.

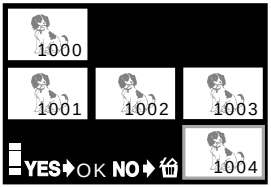


Index display (normal photography)

- Save or erase all the images on the screen.

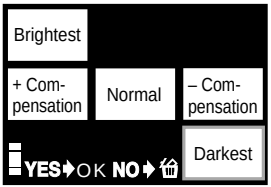


When 1 of the Auto Bracket images is erased.



When Auto Bracket is set to 5 frames.

● Images shot using Auto Bracket are displayed in the sequence shown in the figure at right.



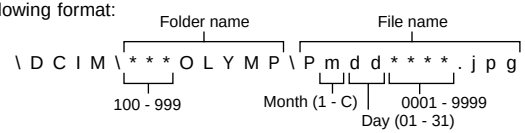
CAUTION

- When Auto Bracket is selected, you cannot take further shots until you have either saved or erased all the images in the CHECK screen.
- Carefully read the Cautions provided for REC VIEW. (P.183).

You can use the procedure below to select the way image file names are recorded. If you select "AUTO", the files are managed so that file names are not duplicated when you download pictures to your personal computer. Images are recorded using automatically generated numbers as the file and folder names. Files are numbered from 0001 to 9999, and folders are numbered from 100 to 999. You can select either "RESET" or "AUTO" as the settings for both folders and files.

Folder names and file names

Recorded pictures are assigned folder names and file names according to the following format:



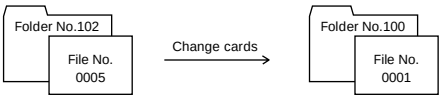
* The notation used for "Month" in folder names is 1-9 for January to September, and then A for October, B for November and C for December

Assigning folder names and file names in each mode

● RESET

When you change the cards, the folder and file names are reset.

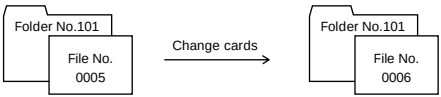
(Example)



● AUTO

When you change the cards, the camera continues to use the same folder name, and the file name continues on from the last number recorded on the previous card.

(Example)



This prevents the duplication of file numbers (file names) when you copy large numbers of images individually to your computer from different cards. However, note that the numbering restarts at 0001 once you reach 9999.

P A/S/M

1 Display the MODE SETUP screen.

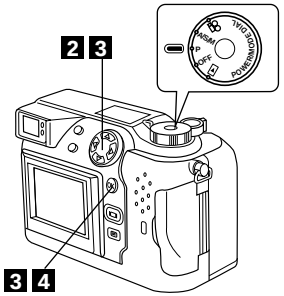
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

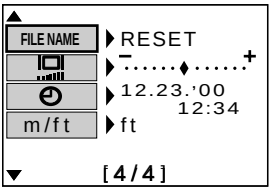
2 Use △ or ▽ on the Arrow pad to select "FILE NAME" and then press ▷.

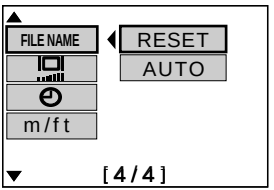
3 Press △ or ▽ to select "RESET" or "AUTO" and then press the [OK] button.

- If you select "RESET", the file and folder names are reset each time you change cards.
- If you select "AUTO", the folder name from the previous card is used again, and the file name continues on incrementally from the last file name used on the previous card. In this way, file names are not duplicated when you take pictures using multiple cards at the same time.

4 Press the [OK] button repeatedly until the menu disappears.







8 Mode setup

CAUTION

- If you insert a card that contains a file name numbered higher than the last file name on the previous card, file names begin numbering from the higher file name.
- When the highest permissible file name (9999) in the highest folder (999) is reached, the number of storable pictures reverts to 0 regardless of the amount of free space on the card and no further pictures can be taken.
- The selected setting is retained until changed, even when the camera is switched off.

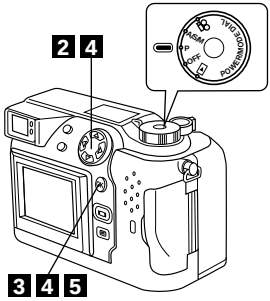
Adjusting the monitor brightness (Adjust monitor)

Use the procedure below to adjust the brightness of the monitor.

P A/S/M

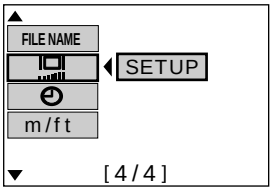
1 **Display the MODE SETUP screen.**

- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)



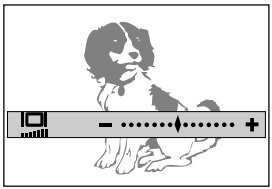
2 **Press △ or ▽ to select "" and then press ▷ to select "SETUP".**

3 **Press the [OK] button to display the brightness setting screen.**



4 **Use ◁ and ▷ to adjust the brightness and then press the [OK] button.**

5 **Press the [OK] button repeatedly until the menu disappears.**



CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

Changing the distance display units (m/ft setting)

When you are using Manual Focus mode, you can choose whether the focal distance displayed on the monitor is shown in meters or feet. (In Macro mode, you can choose between centimeters and inches.)

P A/S/M

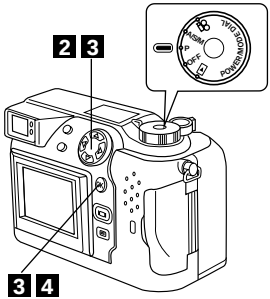
1 Display the MODE SETUP screen.

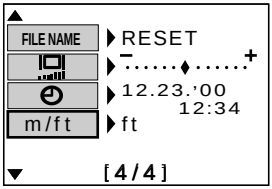
- Perform steps 1-3 in "Using the MODE SETUP menu screen". (P.170)

2 Use △ or ▽ the Arrow pad to select "m/ft" and then press ▷.

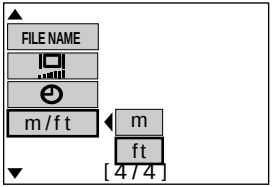
3 Press △ or ▽ to select "m" (meters) or "ft" (feet) and then press the [OK] button.

4 Press the [OK] button repeatedly until the menu disappears.





(This screen shows the still photography menu.)



CAUTION

- The selected setting is retained until changed, even when the camera is switched off.

CAMEDIA

Chapter

Downloading Images to a Computer

- *This chapter describes how to download your pictures to your personal computer. This chapter also introduces the downloading and image processing functions offered by the CAMEDIA Master software.*

Downloading images to your computer

You can also download the pictures you have taken and saved on a card to other devices such as your personal computer.
The sections below describe how to download the pictures and movies you have shot using the camera and saved onto cards onto a personal computer.

Connecting the camera to a computer to download pictures (P.196)

You can use communication functions to download image data directly from a memory card installed in the camera to a computer connected to the camera via the camera's USB connector. To use this method, the preparations described below are required. Note that the method you can use differs depending on your computer system hardware and software.

PC hardware/software	Connection	Connection requirements	
		Connection cable	Communications software
Windows 2000 Professional or Windows Me, Mac OS 8.6 (*1) or 9	USB	USB cable	None required
Windows 98 or Windows 98 Second Edition	USB	USB cable	USB driver (*1)

*1: • The USB driver is included on the CAMEDIA Master 2.5 CD-ROM. The latest version USB driver can also be downloaded from the Olympus web site.
• To use the communications functions with Mac OS 8.6, USB MASS Storage Support 1.3.5 is required. Contact Apple Computer, Inc. for information on obtaining USB MASS Storage Support 1.3.5.
• When a USB connection is used, file management software such as Windows Explorer can be used to download and delete image data.

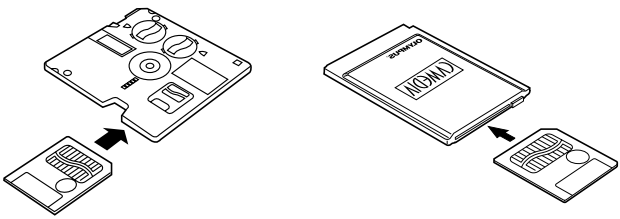
CAUTION

- On computers equipped with USB drivers, note that successful operation is not guaranteed with the following system software:
 Windows 95, Windows NT 4.0 or upgrades from Windows 95 to Windows 98.
- Note that we cannot guarantee that upgraded versions of USB MASS Storage Support will work on Macintosh system software.

Downloading pictures directly from a card

By using a card adapter, you can transfer images to a personal computer without connecting the camera to the computer. Contact your Olympus Customer Support Center for the latest information on the respective devices.

Computer type	Required device
Equipped with a 3.5-inch floppy disk drive	Floppy Disk Adapter (optional)
Equipped with a PC card slot	PC Card Adapter (optional)
Equipped with a USB interface	SmartMedia Reader/Writer (optional)



CAUTION

- Depending on factors such as your personal computer hardware and software configuration and the card's storage capacity, you may not be able to use the devices listed here. Check beforehand for compatibility issues.
- Refer to the respective equipment manuals for more information on compatibility.

Connecting to a computer using the communication cable

This section describes how to connect your camera to a personal computer. Note that the connection method differs depending on your computer hardware and software configuration. (P.198)

Connecting via a USB cable

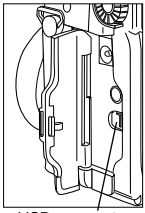
- If you are using an IBM PC-compatible computer running Windows 98 or Windows 98 Second Edition, the USB driver must be installed on your computer beforehand. Refer to the CAMEDIA Master installation guide (contained on the Software CD) on installing the driver.
- If you are using an Apple Macintosh computer running Mac OS 8.6, check that you are running USB MASS Storage Support version 1.3.5.

1 Open the connector cover on the camera.

2 Insert the plug marked A on the USB cable into the USB port on the computer.

3 Insert the plug marked B on the USB cable into the USB connector on the camera.

4 Set the camera's Mode dial to " ▶ ".



- The computer recognizes the selected card on the camera as a disk drive (usually a removable disk). On Macintosh computers, the card appears as a new folder on the desktop.
- The images on the card can then be handled as files by file management software such as Windows Explorer in the same way as files on a floppy disk or MO disk.
- You must break off the connection to the computer to do the following: (P.198)
 - Switch the mode
 - Switch off the camera

MEMO

- Images downloaded to your computer can be viewed using the enclosed CAMEDIA Master software. You can also view the images using any graphics software that supports JPEG images (Paint Shop Pro, Photoshop, etc.) or web browser software (Netscape Communicator, Microsoft Internet Explorer, etc.). Refer to the manual for the respective software application for details.

Removing a card

To avoid computer malfunctions, always use the procedures below when removing cards. (If any malfunction occurs, you must reconnect the USB cable or reboot your computer.)

● **Windows**

1 **Check that the card access lamp on the camera is no longer lit.**

2 **In the "My Computer" window, select the disk drive icon ("Removable disk") and click the right mouse button to display the pop-up menu.**

3 **Select "Eject" from the pop-up menu and click the left mouse button.**

4 **Open the camera's card cover and remove the card. (P.37)**

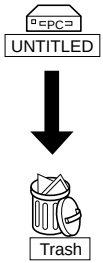


● **Macintosh**

1 **Check that the card access lamp on the camera is no longer lit.**

2 **Select the disk drive icon on the desktop and drag it to the Trash. Alternatively, select "Eject" from the "Special" menu.**

3 **Open the camera's card cover and remove the card. (P.37)**



Disconnecting the USB cable

Use the procedure below to disconnect the USB cable.

- **Windows 98, Windows Me and Mac OS**
 Check that the camera's card access lamp is not lit and then disconnect the USB cable.

- **Windows 2000**
 Use procedure A or B below to disconnect the USB cable.

 (A) Click in the Taskbar.
 (1) Click the left mouse button on the "Disconnect or eject hardware" icon (shown circled in the figure below) in the Taskbar (in the lower right corner of the screen).
 (2) When a message appears to stop the drive, left-click the message.
 (3) When the "Disconnect hardware" message appears indicating that it is safe to disconnect the USB cable, click the [OK] button.
 (4) Disconnect the USB cable.

 (B) Double-click in the Taskbar.
 (1) Double-click the "Disconnect or eject hardware" icon (shown circled in the figure below) in the Taskbar (in the lower right corner of the screen).
 (2) The hardware disconnection screen appears. Select the camera from the list of hardware devices and click the [Stop] button.
 (3) When the "Disconnect hardware" message appears indicating that it is safe to disconnect the USB cable, click the [OK] button.
 (4) Disconnect the USB cable.



CAUTION

- Do not switch the camera off or change the camera mode while it is connected to a computer as this will cause a malfunction.
- The camera will not switch to Sleep mode (battery save mode) or automatically switch off while it is connected to the computer (during communication). If you intend to leave the camera connected to a computer for a long period, use the AC adapter.
- When the camera is connected to a computer, the camera buttons cannot be used.
- If the camera is connected to the computer via a USB hub, compatibility issues between the computer and the hub could cause operational instability. If this occurs, connect the camera directly to the computer and not via a hub.

Overview of the CAMEDIA Master functions

By using CAMEDIA Master, you can install USB driver and download images via USB connection on Windows 98/98SE (Second Edition). Also, simple some functions (image viewing, batch processing, image processing, and so on) are available. Refer to the CAMEDIA Master online manual for more information on CAMEDIA Master.

- **Image Viewer**
 This function displays image files stored on disk or downloaded from the camera either individually or as indexes. The Image Viewer also uses a hierarchical folder display window that allows you to drag and drop your images between folders for easy file management. You can also use Image Viewer to play movies and to display your still pictures as a slide show (automatic display). Image Viewer even allows you to edit out frames from any part of a movie.

- **Batch processing**
 CAMEDIA Master allows you to use the index window to perform batch operations such as rotating, renaming or changing the format of groups of images at a time.

- **Image processing**
 With CAMEDIA Master, you can rotate (left 90°, right 90°, 180°, inputted angle), change the number of colors, resize, insert text and apply filters (brightness, contrast, color balance, sharpness, etc.).

- **Camera-linked functions**
 [Panorama Stitching]: Uses images shot in Panorama mode using a standard Olympus SmartMedia card to create composite panorama images.

- **Printing**
 In addition to printing single images, CAMEDIA Master can also imprint the date and time of shooting on your prints and print on sheets of divided stickers.

Refer to the CAMEDIA Master online manual for more information on how to use CAMEDIA Master.

CAMEDIA

Chapter

10 Miscellaneous

Camera operation problems

Problem:		
The camera does not work.		
Cause	**Solution**	**See**
①The camera is switched off.	❶Set the Mode dial to any setting other than "OFF" to switch the camera on.	P.52
②The batteries are loaded incorrectly.	❷Reload the batteries correctly.	P.29
③There are no batteries loaded.	❸Load new batteries.	P.29
④Battery performance is temporarily reduced due to the cold.	❹Keep the batteries in your pocket to warm them before loading them into the camera.	P.8
⑤The sleep mode function has shut the camera down.	❺Use the shutter button or the zoom lever.	P.52
⑥The camera is connected to a personal computer.	❻The camera will not operate while it is connected to a personal computer.	P.196
⑦The camera was switched on while the lens cap was still attached.	❼Remove the lens cap, then switch the camera off then on again.	P.38

Problem:		
The camera does not take a picture when I press the shutter button.		
Cause	**Solution**	**See**
①The camera is switched off. or the flash has not finished charging.	❶Release the shutter button and wait until the green or orange lamp stops blinking.	P.61,73
②You have just finished shooting in ❀ mode and the card access lamp is blinking.	❷The recorded movie image data is being written to the card. Start shooting again when the card access lamp stops blinking.	P.66
③There is a card fault.	❸Refer to the Error code chart.	P.210
④The card is full.	❹Replace the card, delete unwanted pictures or transfer the image data to a computer and delete all of the pictures.	P.35,71, 154,195
⑤The battery charge ran out while you were taking pictures or recording images onto the SmartMedia card.	❺Load new batteries.	P.29
⑥Symbols disappear from the viewfinder/monitor or the control panel. On the control panel, the battery remaining icon will blink.	❻Replace the batteries. (If images are being recorded onto the card, wait until it is completed before replacing the batteries.)	P.29,54
⑦The memory gauge indicates that the memory is full.	❼Wait until there is space available in the buffer memory.	P.64,66

Problem:		
The camera does not take a picture when I press the shutter button.		
Cause	**Solution**	**See**
⑧There is a write-protect sticker on the card, or there is no card in the camera.	❽Insert a new card in the camera.	P.35
⑨The Mode dial is set to " ▶ ".	❾Set the Mode dial to "P", "A/S/M" or " 🎥 ".	P.41

Problem:		
The flash does not fire.		
Cause	**Solution**	**See**
①The flash mode is set to "Flash Off".	❶Change the flash mode. (The flash cannot be used in Sequence mode or Panorama mode.)	P.124
②The subject is brightly lit.	❷To force the flash to fire, set the flash mode to "Forced Flash".	P.124, 126
③" ⧉ ", " AF⧉ " or "BKT" is selected as the drive mode.	❸Switch to a single-shot mode.	P.93
④The camera is set to Panorama mode.	❹Deactivate Panorama mode.	P.120
⑤"WHITE BOARD" or "BLACK BOARD" is selected in the FUNCTION setting.	❺The flash does not fire when "WHITE BOARD" or "BLACK BOARD" is selected.	P.118

Problem:		
The date recorded with the image data is wrong.		
Cause	**Solution**	**See**
①The date was not set.	❶Set the date. The clock adjustment is not factory-preset.	P.38
②The camera has been left for approx. 1 week with the batteries removed and the date setting is canceled.	❷Try setting the date again.	P.38

Problem:		
I cannot display images on the monitor.		
Cause	**Solution**	**See**
①The camera is set to a shooting mode.	❶Set the Mode dial to " ▶ ".	P.138
②There are no pictures recorded on the card.	❷The "NO PICTURE" message appears on the monitor. Take a picture and then display the shot.	P.60
③There is a fault in the card.	❸Refer to the Error Code chart.	P.210
④The camera is connected to a TV.	❹The monitor is switched off while the camera is connected to a TV.	P.143

Problem:		
The monitor is difficult to see.		
Cause	**Solution**	**See**
①The monitor brightness is incorrectly adjusted.	❶Adjust the monitor brightness.	P.191
②You are looking at the monitor in sunlight.	❷Use your hand or another object to shade the monitor.	

Problem:		
I cannot protect images, erase frames (single or all), or initialize the SmartMedia card.		
Cause	**Solution**	**See**
①There is a write-protect sticker on the card.	❶Peel the sticker off before using the card. Do not re-use write-protect stickers.	P.35

Problem:		
When the camera is connected to a computer, an error message appears during data transfer.		
Cause	**Solution**	**See**
①The cable is not connected correctly. ②The camera is switched off. ③There are no batteries in the camera. ④The USB driver is not correctly installed.	❶Check that the cable is connected correctly. ❷Set the Mode dial to " ▶ ". ❸Load new batteries or use the optional AC adapter. ❹Check whether the camera is correctly recognized by the computer, as laid out in the USB driver (or CAMEDIA Master) installation guide.	P.194 P.196 P.29,33

Problems with images

Problem:		
The picture is out of focus.		
Cause	**Solution**	**See**
①The camera moved when you pressed the shutter button (camera shake).	❶Hold the camera correctly and press the shutter button gently and smoothly.	P.58,59
②The viewfinder's AF target mark was not positioned on the subject.	❷Ensure that you subject is in the center of the shot, or use the focus lock.	P.60,78
③The lens is soiled.	❸Clean the lens with a soft dry cloth.	P.208
④The subject was too close.	❹Use Macro mode for subjects 7.9" to 31.5" (2.6 ft) meters from the camera. For longer distances, use the normal shooting mode.	P.84
⑤In Self-timer mode, you pressed the shutter button while you were standing in front of the camera.	❺Press the shutter button while looking through the viewfinder, not while standing in front of the camera. Alternatively, use the remote control.	P.60,115
⑥You used manual focus without selecting the correct focal distance.	❻Use the correct focal distance for the manual focus shot.	P.82

Problem:		
The picture is too bright.		
Cause	**Solution**	**See**
①The flash is set to the Forced Flash mode.	❶Select a flash mode other than Forced Flash.	P.124
②The subject was too bright.	❷Use exposure compensation or take the shot from a different angle.	P.92,127
③Neared the subject by macro mode and shot the picture.	❸Confirm the effective flash range and shoot the picture.	P.84,124

Problem:		
The picture is too dark.		
Cause	**Solution**	**See**
①The flash was obscured by a finger or other object.	❶Hold the camera correctly, taking care that the flash is not obscured.	P.58
②The subject is beyond the effective range of the flash.	❷Shoot within the effective flash range or use an external flash.	P.124, 131
③The flash was set to the "Flash Off" mode.	❸Check the flash mode before taking the shot.	P.124
④The subject was too small and was backlit.	❹Set the flash to "Forced Flash" mode or use Spot Metering mode.	P.95,126
⑤You used Sequence mode to take the shot.	❺Higher shutter speeds are used when the Sequence mode is selected and this may result in pictures that are darker than usual.	

Problem:		
The colors of pictures taken indoors look unnatural.		
Cause	**Solution**	**See**
①The lighting affected the picture.	❶Set the flash mode to Forced Flash.	P.126
②There are no white areas on the subject.	❷Include something white in the field of view or adjust the white balance to suit the lighting.	P.105, 107,109
③The white balance setting is incorrect.	❸Adjust the white balance to suit the lighting.	P.105, 107,109

Problem:		
Part of the picture is obscured.		
Cause	**Solution**	**See**
①The lens was partly obscured by a finger or the strap.	❶Hold the camera correctly, taking care to keep your fingers and the strap away from the lens.	P.58
②You were too close to the subject.	❷Use the monitor.	P.63,65

Camera maintenance and storage

After-use camera care

After you use the camera, always switch it off and replace the lens cap. When storing the camera, do not use insect repellents of any sort.

Cleaning the camera

1 **Set the Mode dial to "OFF".**

2 **Remove the batteries (P.29). If you are using the AC adapter, unplug the connection cord from the camera and unplug the AC adapter from the domestic AC wall outlet. (P.33)**

3 **Camera exterior** Gently wipe the outside of the camera with a soft, dry cloth. Where there is excessive soiling, moisten the cloth with diluted mild liquid soap, wring the cloth out thoroughly and use it to wipe off the dirt. Then wipe the camera thoroughly with a dry cloth. If you have been using the camera near the ocean, moisten the cloth with fresh water, wring the cloth out thoroughly and use it to wipe the camera.

Monitor and viewfinder Wipe gently with a soft, dry cloth.

Lens Use a lens blower (commercially available) to blow off any dust and then wipe the lens carefully with lens cleaning paper. Replace the lens cap when storing the camera.

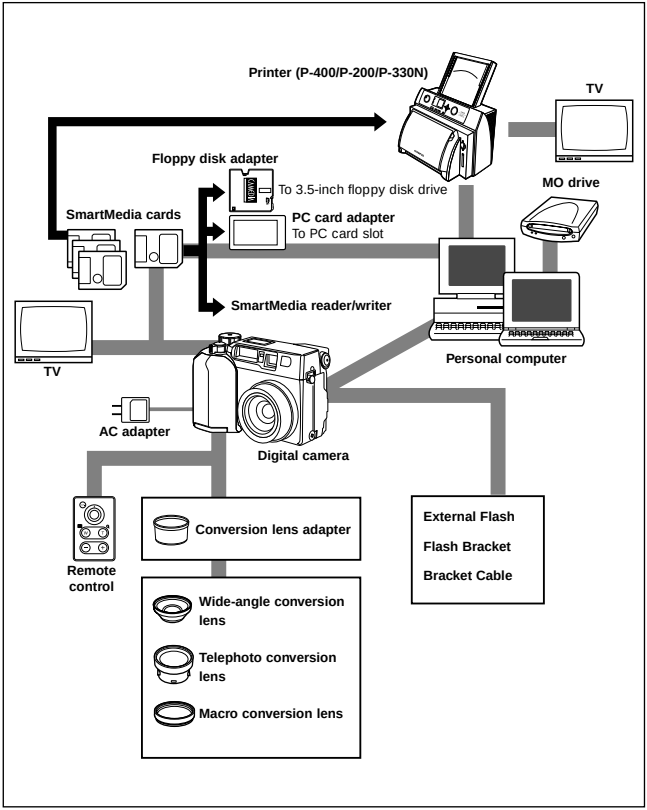
SmartMedia card Wipe gently with a soft, dry cloth.

CAUTION

- Never use harsh detergents such as benzene or alcohol to clean the camera.
- Always remove the batteries and disconnect the AC adapter before cleaning the camera.
- Leaving soiling on the lens can result in the growth of mold.
- Do not use chemical cleaners or chemically impregnated cloths.

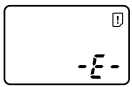
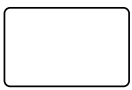
Equipment that can be connected to this camera (System expansion chart)

Optional accessories can be used with your Camedia to provide the system expansion options shown below.



Error codes

The Camedia uses a variety of error codes to display warnings when problems arise. (The code displayed on the control panel blinks.)

Control panel display	Monitor display	Meaning	Response
	CARD COVER OPEN	The card cover is open.	Insert a card and close the cover.
	NO CARD	No card is inserted, or the camera cannot recognize the card.	Insert a card or insert the card again.
	CARD FULL	The number of storable pictures is 0 so no more pictures can be taken.	Replace the card or erase unwanted pictures.
	WRITE PROTECT	Writing to the card is prohibited.	To take pictures, remove the write-protect sticker.
	CARD ERROR	You cannot record, display or erase images on the card.	If the card is dirty, wipe it with a clean tissue and insert the card again. Alternatively, format the card. If this still does not correct the problem, the card cannot be used.
 (No display)	PICTURE ERROR	The recorded images cannot be displayed on this camera.	Use the image processing software on your computer to display the images. If this is not successful, some of the image files are damaged.

Control panel display	Monitor display	Meaning	Response
	(Formatting screen)	The card is not formatted.	Format the card.
	NO PICTURE	There are no pictures on the card, so there is nothing to display.	Insert a card that contains images.
	CARD FULL	There is no free space on the card, so you cannot record print data.	Replace the card or erase unwanted pictures.

Optional items

- Photo Printers For Olympus Digital Cameras
- AC Adapter
- Camera Case
- Standard SmartMedia cards (8/16/32/64 MB)
- FL-40 external flash
- Remote control
- Flash bracket
- Bracket cable
- Floppy Disk Adapter
- PC Card Adapter
- NiMH Batteries
- NiMH Battery Charger
- USB SmartMedia Reader/Writer

Visit the Olympus home page (http://www.olympus.com) for the latest information on optional items.

as of October 2000

Compatibility of the picture data

- Images taken by this camera may not be properly displayed or printed with other Olympus digital cameras.
- Images taken by other Olympus digital cameras may not be properly displayed or printed with this camera.

Specifications

Product type:	Digital camera (for shooting and displaying)
Recording System	
Still images:	Digital recording, JPEG (DCF-compliant), TIFF (uncompressed), DPOF-compliant
Movies:	QuickTime Motion-JPEG-compliant
Recording media:	3 V (3.3 V); 4, 8, 16, 32, or 64 MB SmartMedia card
No. of available shots (using a 8 MB card):	
	Approx. 1 frame (TIFF: 1600 x 1200)
	Approx. 7 frames (SHQ)
	Approx. 16 frames (HQ)
	Approx. 38 frames (SQ1: NORMAL)
	Approx. 82 frames (SQ2: NORMAL)
Erase:	One-Frame erase, All-Frames erase
Image pickup element:	1/2 inch CCD solid-state image pickup 2,110,000 pixels (total)
Resolutions:	1600 x 1200 pixels (TIFF/SHQ/HQ)
	1024 x 768 pixels (TIFF/SQ1)
	640 x 480 pixels (TIFF/SQ2)
White balance:	Full Auto TTL (iESP Auto), Quick Reference, Preset (Daylight, Overcast, Tungsten Light, Fluorescent)
Lens:	Olympus lens 7.1 to 21.3 mm, F/1.8 to F/2.6, 10 elements in 7 groups (equivalent to 40-120 mm on a 35 mm camera)
Light metering:	Spot metering or Digital ESP metering using the image pickup element
Exposure control (photography modes):	
	Program Auto, Aperture Priority, Shutter Priority and Manual
Aperture:	W: F/1.8 to F/10.0
	T: F/2.6 to F/10.0
Shutter speeds:	Coupled with mechanical shutter
Still images:	Program Auto: 1-1/800 sec.
	Aperure Priority, Shutter Priority: 4-1/800 sec.
	Manual: 16-1/800sec.
Movie:	1/30-1/10000 sec.

Effective range:	2.6 ft (31.5") to ∞ (normal photography) 7.9" to 31.5" (2.6 ft) (Macro mode)
Viewfinder:	Optical real image viewfinder (Autofocusing marks), Monitor
Monitor:	1.8-inch TFT color LCD display
Monitor resolution:	Approx. 114,000 pixels
On-screen display:	Date/Time, Frame number, Protect, Record mode, Battery check, Image information, Print ordering, Menu settings, etc.
Flash charging time:	Approx. 6 sec. (at normal temperature with new batteries)
Effective flash range:	W: Approx. 2.6 ft to 18.4 ft T: Approx. 7.9" to 12.5 ft
Flash modes:	Auto-Flash (flash fires automatically in low light and backlighting), Red-eye Reduction, Forced Flash, Flash Off
Control panel display:	Recording mode, Number of storable pictures, Card error, Flash mode, Flash intensity control, Battery check, Sequence mode, Exposure compensation, Spot Metering mode, White balance, ISO setting, Self-timer/Remote control, Macro mode, Slow synchro, Auto bracket, Card writing, Manual focus
Autofocus:	TTL-type AF, Spot AF, Contrast-detection system Focusing adjustment range : 7.9" to ∞
Self-timer:	12-sec. delay
External connectors:	DC IN jack, Video output jack (NTSC format), USB connector (USB 1.0-compliant), 5-pin external flash socket
Date/time:	Recorded simultaneously with picture data
Automatic calendar function:	Self-correcting to 2030
Calendar battery:	Uses main camera battery (with internal capacitor for backup)

Operating environment	
Temperature:	32-104 °F (operating), –4 to 104 °F (storage)
Humidity:	30-90 % (operating), 10-90 % (storage)
Power supply:	For batteries, use 2 CR-V3 lithium battery packs, or 4 AA-size NiMH, Ni-Cd, alkaline or lithium batteries. Do not use manganese batteries. AC adapter (optional)
Dimensions (W x H x D):	4.3" x 3.0" x 2.7" (109.5 x 76.4 x 69.6 mm) (excluding attachments)
Weight:	307 g (excluding batteries and SmartMedia card)

Specifications are subject to change without any notice or obligation on the part of the manufacturer.

Glossary of terms

A (Aperture Priority) Mode • • • • • • • •
In this mode, you set the aperture yourself and the camera automatically varies the shutter speed according to the aperture setting so that the picture is taken with the optimum exposure.

AE (Automatic Exposure) • • • • • • • •
This is a system whereby the camera uses a built-in exposure meter to automatically set the exposure. The 3 AE modes available on this camera are P mode, in which the camera selects both the aperture and shutter speed, A mode, in which the user selects the aperture and the camera sets the shutter speed, and S mode, in which the user selects the shutter speed and the camera sets the aperture. In M mode, the user must select both the aperture and the shutter speed.

Aperture •
This is a mechanism for adjusting the amount of light that passes through the lens. Lower values allow more light to pass, while higher values lessen the amount of light. When you set the lowest aperture value for a lens, the aperture is at its widest. Conversely, the highest aperture value gives the narrowest aperture.

Backlight •
A light source provided for the Monitor so that it can be seen more easily.

CCD (Charge-coupled Device) • • • • •
A pickup element that converts light passing through the lens into electrical signals. On this camera, light is picked up at 2.11 million points and converted to RGB signals to build a single image.

Contrast Detection Method • • • • • • •
This is a method used to measure the distance to the subject. The camera determines whether the image is focused by detecting the level of contrast in the subject.

Conventional Photograph • • • • • • • •
This refers to the system of recording images using silver halide. (This is the method for recording images on film in conventional, non-digital photography.) This system is in contrast to still video and digital photography.

DCF •
(Design rule for Camera File system)
A standard formulated for image files by the Japanese Electronic Industry Development Association (JEIDA).

Digital ESP (Electro-Selective Pattern) light metering • • • • • • • • • • • • • • • • •
A light metering method that determines the exposure by metering and calculating the light levels in the center and around the periphery of the image separately.

DPOF •
(Digital Print Order Format)
A format used for recording automatic print settings for digital cameras. By recording which images are to be printed and the number of copies of each image on the card on which the images are saved, the user can automatically have the desired images printed by a printer or print lab that supports the DPOF format.

Eclipsing (Vignetting) • • • • • • • • • • •
This refers to the situation where there is an object that obscures part of the field of view so that part of the subject is not photographed. Vignetting also refers to the situation where the image seen through the viewfinder does not exactly match the image shot through the objective lens so that the photographed image includes objects not seen through the viewfinder. Vignetting can also occur when the incorrect lens hood is used and shadowing appears in the corners of the image.

EV •
(Exposure Value)
An exposure measurement system in which the exposure for an aperture of F1 and a shutter speed of 1 second is taken as EV0. The EV value then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be used to indicate brightness and ISO settings.

Exposure •
The amount of light used to capture an image. The exposure is determined by the time for which the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

Flash Bracket • • • • • • • • • • • • • • • • •
A mount used to attach an external flash to the camera.

ISO •
A method for indicating film speed laid down by the International Organization for Standardization (ISO) (e.g. "ISO 100"). Higher ISO values indicate greater sensitivity to light so that images can be exposed even in low-light conditions.

JPEG •
(Joint Photographic Experts Group)
A compression format for color still images. Photographs (images) shot using this camera are recorded onto the SmartMedia card in JPEG format when the Record mode is set to SHQ, HQ or SQ. By downloading these images to a personal computer, users can edit them using graphics application software or view the images using an Internet web browser.

M (Manual) Mode • • • • • • • • • • • • • • •
A shooting mode in which the user sets both the aperture and the shutter speed.

P (Program) Mode • • • • • • • • • • • • • • •
Also called Program AE mode. In this mode, the camera automatically sets the optimal shutter speed and aperture setting for the shot.

Pixels •
A pixels the smallest unit (dot) used to make up an image. Large size clear printed images require large number of pixels.

Ring Flash • • • • • • • • • • • • • • • • • • •
A flash unit that uses a circular xenon fluorescent tube as the light source.

S (Shutter Priority) Mode • • • • • • • • •
Also called Shutter Priority AE mode. In this mode, the user selects the shutter speed and the camera automatically varies the aperture according to the shutter speed setting so that the picture is taken with the optimum exposure.

Synchro Terminals • • • • • • • • • • • • •
Terminals on an external flash unit that are used for connecting to the camera.

TFT (Thin-Film Transister) Color Monitor •
A color Monitor constructed using thin-film technology.

TIFF •
(Tagged Image File Format)
A format used for saving black and white and color image data. TIFF image files can be handled by software programs for scanners and graphics applications.

TTL (Through-The-Lens) System • • •
An exposure adjustment mechanism in which a light receptor built into the camera directly measures the light passing through the lens.

TTL-AUTO • • • • • • • • • • • • • • • • • • •
An external flash unit function. This is a control method in which the light emitted by the flash is received and measured by the light receptor in the camera as it passes through the lens. A flash intensity control signal is then generated using that light and sent to the flash unit.

Index

A

A/S/M mode 88
AC adapter 33
Adjust Monitor....191
AE lock....99
AE lock setting....98
AE memory 99, 101
AF continuous shooting 113
AF modes....81
NORMAL....81
Spot 81
All print order 160
ALL RESET....173
All-frame erase....152
Aperture Priority mode....89
Aperture setting 89
Attaching the camera strap 28
Auto bracket 93
Auto-Flash....73, 125
Autofocus....76
Automatic playback....141
Available shots/time....56

B

Backlighting 74
Batteries....29
Buffer memory 64, 66
Buzzer tone....182

C

CAMEDIA Master....199
Card check 55
CHECK....184
Cleaning the camera 208
Close-up playback....140
Composition....60, 63, 65
Connecting to a computer....194
Connecting to a TV....143
Contrast 178
Custom settings....175

D

Date/time setting....38
DCF....2
Digital ESP metering....95
Digital zoom....85
Diopter adjustment 58
Displaying image information....145
Displaying images rotated....144
Downloading images to a computer...194
Downloading pictures directly from a card...195
DPOF 158
Drive 93, 113, 115

E

Editing movies 150
Erasing images....71, 152
Exposure compensation....92

F

File name memory 189
File name settings.....189
1st-curtain effect 129
Flash intensity control 127
Flash off 126
Flash pattern selection 124
Flash photography.....73, 124
Flash selection 133
FlashPath 195
Focus lock.....78
Focusing 59, 76
Forced flash 126
Formatting.....154
Full-time AF 79
Function mode 118
Function playback (FUNCTION) ..147

I

Index creation 147
Index playback 138
Index playback settings 139
Initialization 154
Inserting/Removing SmartMedia cards ...35
ISO settings 103

J

JPEG (compression).....112, 196

L

Monitor brightness adjustment.....191
Monitor ON/OFF.....63
Light metering modes.....95
Lithium battery pack.....29

M

m/ft setting 192
Macro mode.....84
Manual focus 82
Manual mode 91
Menus
 Movie playback menu 49
 Movie record menu 47
 Still picture playback menu.....48
 Still picture shooting menu.....46
 Using the menus 42, 170
Mode dial 41
 A 89
 M.....91
 P 60
 S 90
 🎬 65
MODE SETUP menu 170
Movie index.....147
Multi-metering 101

O

One-frame erase.....71

P

Package contents.....21
Panorama mode 120
Playing movies.....69
Preset white balance 105
Printers.....157
Protecting images.....142
Protection.....142

Q

Quality settings 111
Quick Reference White balance ..107
Quick View 67

R

REC VIEW 183
Red-eye reduction flash.....125
Remaining charge 54
Remote control 115, 117, 144
Resetting print reserve.....167

S

2nd-curtain effect.....129
Self-timer.....115, 116
Sequence mode 113
Sharpness.....177
Shooting movies 65
Shutter button pressed fully/halfway ...59
Shutter Priority mode 90
Shutter speed 90
Single print order 162
Single-frame display.....138
Slow synchro.....129
SmartMedia.....35
Specifications 213
Spot Metering mode 95
SQ1/SQ2 setting 180
Switching on/off 52

T

Taking still pictures 60, 63
TIFF (uncompressed) ...111, 112, 179
TIFF setting 179
Trimmed print order 165

U

USB connection.....196
Using a domestic AC wall outlet....33
Using external flash.....131
Using the zoom.....72

V

Video output.....143

W

White Balance Correction.....109
Wide-angle photography.....72
Working range 77

Z

Zoom.....72

– MEMO –

OLYMPUS®

OLYMPUS OPTICAL CO., LTD.
San-Ei Building, 22-2, Nishi Shinjuku 1-chome, Shinjuku-ku, Tokyo, Japan.
(Customer support) Tel. 0426-42-7499 Tokyo
http://www.olympus.co.jp

OLYMPUS AMERICA INC.
Two Corporate Center Drive, Melville, NY 11747-3157, U.S.A. Tel. 631-844-5000
(Customer support) Tel. 1-888-553-4448
http://www.olympus.com

OLYMPUS OPTICAL CO. (EUROPA) GMBH.
(Premises/Goods delivery) Wendenstraße 14-18 D-20097 Hamburg, Germany. Tel. 040-237730
(Letters) Postfach 10 49 08, 20034 Hamburg, Germany.
http://www.olympus-europa.com

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